

No Example Question: 0

The following code describes a model airplane.

The airplane is consist of four parts , namely wing , body , tail , and engine .

Please annotate the following code to classify every code block . Block is defined with the 'code' sentence .

Here are an annotation example , please comment the given code following the structure of example .

Notice 1 , all annotation should start with '//gt label:' , and you should replace the placeholder *** with your prediction

Notice 2 , you should only predict parts from wing , body , tail , and engine .

Task:

```
//gt label: ***
translate([-15.074674189090729,-1.7249471321702003,0.004567506257444525])
rotate([-130.32339074715486, 0.9322074454637863, -10.272641000509907])
cube([2.6874679327011197,2.552479617297667,2.4472558125853663],center=true);
//gt label: ***
translate([-18.23992818593979,-1.3331068865954876,3.3869865909218793])
rotate([-115.31114244967323, 72.19267551449406, -26.788785586062886])
cube([5.484133325517179,1.4128672517836138,0.12016741209665482],center=true);
//gt label: ***
translate([0.16497560660354793,-3.9487890154123306,3.8413323089480405])
rotate([167.5062758456813, 83.53026105728806, -102.1632179658437])
cube([4.192828088998795,2.3708329163491735,0.8533036196604387],center=true);
//gt label: ***
translate([-5.830232277512551,-2.8542086109519,0.006996251759119387])
rotate([179.99371823902078, 0.02610469870305648, -2.494284544592666])
cube([13.805754929780964,3.4458296373486608,3.3688312023878204],center=true);
//gt label: ***
translate([-16.979714334011078,0.22976583102717996,-0.0050979305524378946])
rotate([0.21886454615984383, 0.6345535921042724, 73.02517312896761])
cube([5.4412898048758525,2.15925000607968,0.457190065644682],center=true);
//gt label: ***
translate([9.9213844537735,-3.030048292130232,0.015458189445780597])
rotate([179.99111833310496, -0.3136541546803373, -0.3479469329746344])
cube([14.514621943235401,3.5595400258898775,3.3572911284863993],center=true);
//gt label: ***
translate([3.5951648280024533,-4.504960626363754,-3.9638251438736916])
rotate([-177.33952817471692, -83.04299989332627, 83.71547640244957])
cube([4.381989985704424,3.589124232530597,1.4678625483065875],center=true);
//gt label: ***
translate([3.59521072357893,-4.506650976836681,3.962673246860504])
rotate([3.198273128481802, -82.95772282547932, -96.84383542482172])
cube([4.37215685844422,3.598536513745792,1.4704217389226009],center=true);
//gt label: ***
translate([-3.0519824847579002,-2.776682786643505,14.160122871398926])
rotate([-110.44930620797955, 70.48855763975978, -20.91218484869099])
cube([6.701969578862192,1.3487752061337308,0.2984280721284608],center=true);

//gt label: ***
translate([-0.7638943241909145,-3.4050163812935352,8.457721248269081])
rotate([-110.78278713957445, 76.2917353364514, -19.769320414566955])
cube([4.614250287413598,2.5918871164321904,0.5365997087210455],center=true);
```

```

//gt label: ***
translate([-0.7694108085706831,-3.401900604367256,-8.452712073922157])
rotate([110.30140899253772,-76.32257784064667,-19.43716380306151])
cube([4.622301273047927,2.590262126177552,0.5367324780672811],center=true);
//gt label: ***
translate([-18.138041645288467,-1.3327325507998466,-3.4679336845874786])
rotate([112.54633972019874,-68.63369964883897,-22.8044706787177])
cube([5.48646703362465,1.4016167912632265,0.1192448392976122],center=true);
//gt label: ***
translate([-3.0432422459125523,-2.769499309360981,-14.141722023487093])
rotate([110.28041958843485,-70.41431045187099,-20.731363741013677])
cube([6.709006354212766,1.3475078530609612,0.29589290497824705],center=true);
//gt label: ***
translate([-18.25397551059723,4.169581979513168,0.019402902398724102])
rotate([179.95081089499456,-0.15121620496685415,-83.39861676374602])
cube([2.8596763312816647,1.5816534589976101,0.14219020726159254],center=true);
//gt label: ***
translate([0.15211068210192036,-3.940819166600704,-3.8314110785722737])
rotate([-167.92164333392125,-83.47423338843586,-101.97831115012755])
cube([4.199914038181307,2.3692896775901326,0.8531630644574768],center=true);
//gt label: ***
translate([18.815257102251053,-3.3718490414321423,0.0193661564844661])
rotate([90.08739449602585,-0.09800786469819125,-90.05765042322027])
cube([1.7534650862217243,1.6840452607721097,1.1653851903975494],center=true);

```

No Example Answer: 0

```

//gt label: wing
translate([-15.074674189090729,-1.7249471321702003,0.004567506257444525])
rotate([-130.32339074715486,0.9322074454637863,-10.272641000509907])
cube([2.6874679327011197,2.552479617297667,2.4472558125853663],center=true);
//gt label: body
translate([-18.23992818593979,-1.3331068865954876,3.3869865909218793])
rotate([-115.31114244967323,72.19267551449406,-26.788785586062886])
cube([5.484133325517179,1.4128672517836138,0.12016741209665482],center=true);
//gt label: tail
translate([0.16497560660354793,-3.9487890154123306,3.8413323089480405])
rotate([167.5062758456813,83.53026105728806,-102.1632179658437])
cube([4.192828088998795,2.3708329163491735,0.8533036196604387],center=true);
//gt label: engine
translate([-5.830232277512551,-2.8542086109519,0.006996251759119387])
rotate([179.99371823902078,0.02610469870305648,-2.494284544592666])
cube([13.805754929780964,3.4458296373486608,3.3688312023878204],center=true);
//gt label: body
translate([-16.979714334011078,0.22976583102717996,-0.0050979305524378946])
rotate([0.21886454615984383,0.6345535921042724,73.02517312896761])
cube([5.4412898048758525,2.15925000607968,0.457190065644682],center=true);
//gt label: wing
translate([9.9213844537735,-3.030048292130232,0.015458189445780597])
rotate([179.99111833310496,-0.3136541546803373,-0.3479469329746344])
cube([14.514621943235401,3.5595400258898775,3.3572911284863993],center=true);
//gt label: engine
translate([3.5951648280024533,-4.504960626363754,-3.9638251438736916])
rotate([-177.33952817471692,-83.04299989332627,83.71547640244957])
cube([4.381989985704424,3.589124232530597,1.4678625483065875],center=true);
//gt label: body
translate([3.59521072357893,-4.506650976836681,3.962673246860504])

```

```

rotate([3.198273128481802, -82.95772282547932, -96.84383542482172])
cube([4.37215685844422,3.598536513745792,1.4704217389226009],center=true);
//gt label: tail
translate([-3.0519824847579002, -2.776682786643505,14.160122871398926])
rotate([-110.44930620797955, 70.48855763975978, -20.91218484869099])
cube([6.701969578862192,1.3487752061337308,0.2984280721284608],center=true);

//gt label: body
translate([-0.7638943241909145, -3.4050163812935352,8.457721248269081])
rotate([-110.78278713957445, 76.2917353364514, -19.769320414566955])
cube([4.614250287413598,2.5918871164321904,0.5365997087210455],center=true);
//gt label: engine
translate([-0.7694108085706831, -3.401900604367256, -8.452712073922157])
rotate([110.30140899253772, -76.32257784064667, -19.43716380306151])
cube([4.622301273047927,2.590262126177552,0.5367324780672811],center=true);
//gt label: wing
translate([-18.138041645288467, -1.3327325507998466, -3.4679336845874786])
rotate([112.54633972019874, -68.63369964883897, -22.8044706787177])
cube([5.48646703362465,1.4016167912632265,0.1192448392976122],center=true);
//gt label: body
translate([-3.0432422459125523, -2.769499309360981, -14.141722023487093])
rotate([110.28041958843485, -70.41431045187099, -20.731363741013677])
cube([6.709006354212766,1.3475078530609612,0.29589290497824705],center=true);
//gt label: engine
translate([-18.25397551059723,4.169581979513168,0.019402902398724102])
rotate([179.95081089499456, -0.15121620496685415, -83.39861676374602])
cube([2.8596763312816647,1.5816534589976101,0.14219020726159254],center=true);
//gt label: tail
translate([0.15211068210192036, -3.940819166600704, -3.8314110785722737])
rotate([-167.92164333392125, -83.47423338843586, -101.97831115012755])
cube([4.199914038181307,2.3692896775901326,0.8531630644574768],center=true);
//gt label: body
translate([18.815257102251053, -3.3718490414321423,0.0193661564844661])
rotate([90.08739449602585, -0.09800786469819125, -90.05765042322027])
cube([1.7534650862217243,1.6840452607721097,1.1653851903975494],center=true);

```

No Example Question: 1

The following code describes a model airplane.

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Notice 1, all annotation should start with '//gt label:', and you should replace the placeholder *** with your prediction

Notice 2, you should only predict parts from wing, body, tail, and engine.

Task:

```

//gt label: ***
translate([10.233398154377937, -2.542352061718702,0.016752978699514757])
rotate([0.07293735511468132, -0.32311898947117834, 0.14980733420051667])
cube([14.565475881099708,3.5536899790167817,3.2618002593517312],center=true);

```

```

//gt label: ***
translate([-17.15000495314598,0.1767136692069471,-0.014859895018162206])
rotate([0.23945260788361308, 0.9662714921344305, 65.85160814176284])
cube([5.703376904129986,2.284846119582665,0.47554199583828477],center=true);
//gt label: ***
translate([-0.21375198848545557,-3.389348573982716,-4.030495434999466])
rotate([5.535275690634281, 80.51945456963035, 95.47307284299437])
cube([4.377156607806683,2.46059462428093,0.8274273760616797],center=true);
//gt label: ***
translate([3.2858493365347385,-3.7494206801056866,-4.478634186089039])
rotate([-174.4424970819488, -84.32345993974258, 80.97624640896319])
cube([4.700984731316581,3.9289867132902314,1.4795199222862805],center=true);
//gt label: ***
translate([-5.481415241956711,-2.4164217710494995,0.005415466730482876])
rotate([-179.91672024987184, 0.10720704194893887, -1.7747561875698454])
cube([13.972000181674963,3.3922076225281037,3.3860469609499253],center=true);
//gt label: ***
translate([-14.985372871160505,-1.6932213027030232,0.017578401166247384])
rotate([-129.11672595006985, 1.4365185575016923, -5.91875990135237])
cube([2.767746057361449,2.6511936262250693,2.5154695473611732],center=true);
//gt label: ***
translate([-0.22363933501765132,-3.3783567883074284,4.0274179726839066])
rotate([-5.691028493805405, -80.30438112928186, 95.55512198454505])
cube([4.3613525480031985,2.4688906595110898,0.8301708148792393],center=true);
//gt label: ***
translate([-3.83928831666708,-1.6292880475521088,13.84933277964592])
rotate([-109.57229119755522, 68.75098238431028, -19.78820746926253])
cube([6.254601627588276,1.677151499316103,0.32551002223044884],center=true);

//gt label: ***
translate([19.155228585004807,-2.840406745672226,0.014593831292586401])
rotate([45.898682719080014, 89.84470967418689, -134.61131681147813])
cube([1.651420677080801,1.6406363435090274,1.2112336419523233],center=true);
//gt label: ***
translate([-17.88649618625641,-1.6755205672234297,3.5308007895946503])
rotate([-121.40486008933163, 72.67759078536278, -32.405874641961816])
cube([5.450109541416168,1.647915402427319,0.1307015737984354],center=true);
//gt label: ***
translate([-17.7386337518692,-1.6821485850960014,-3.6005014181137085])
rotate([115.54155105838161, -68.46903206821945, -25.373668594153667])
cube([5.481317713856701,1.6346948128193666,0.12983383494430006],center=true);
//gt label: ***
translate([-3.8126922398805623,-1.661948999390006,-13.838217854499819])
rotate([108.9185810407197, -68.89575497242774, -19.104765967933826])
cube([6.259281337261205,1.6732768062502206,0.32410754356534577],center=true);
//gt label: ***
translate([-1.2090794183313844,-2.39425728097558,-8.642287850379944])
rotate([115.2356276748709, -74.36285237906799, -23.796308287756684])
cube([4.549195356667054,2.962181642651576,0.5826913658529642],center=true);
//gt label: ***
translate([3.2827888801693916,-3.7463440373539925,4.486278258264065])
rotate([5.763582958161343, -84.35247507826415, -99.1976935652948])
cube([4.696845114231117,3.9415006339550103,1.4838621765375144],center=true);
//gt label: ***
translate([-1.2060251086950302,-2.3856407962739468,8.632851392030716])
rotate([-116.06612268142278, 74.25147638894713, -24.488883650841263])
cube([4.538758210837845,2.9628637246787597,0.5826405528932886],center=true);
//gt label: ***

```

```
translate([-18.57037141919136,3.960353471338749,0.010860398542718032])
rotate([0.0583913655830972, 0.29460563774497545, 97.54395652116982])
cube([2.8469880484044787,1.7371205240488408,0.16724910237826446],center=true);
```

No Example Answer: 1

```
//gt label: body
translate([10.233398154377937,-2.542352061718702,0.016752978699514757])
rotate([0.07293735511468132, -0.32311898947117834, 0.14980733420051667])
cube([14.565475881099708,3.5536899790167817,3.2618002593517312],center=true);
//gt label: tail
translate([-17.15000495314598,0.1767136692069471,-0.014859895018162206])
rotate([0.23945260788361308, 0.9662714921344305, 65.85160814176284])
cube([5.703376904129986,2.284846119582665,0.47554199583828477],center=true);
//gt label: engine
translate([-0.21375198848545557,-3.389348573982716,-4.030495434999466])
rotate([5.535275690634281, 80.51945456963035, 95.47307284299437])
cube([4.377156607806683,2.46059462428093,0.8274273760616797],center=true);
//gt label: wing
translate([3.2858493365347385,-3.7494206801056866,-4.478634186089039])
rotate([-174.4424970819488, -84.32345993974258, 80.97624640896319])
cube([4.700984731316581,3.9289867132902314,1.4795199222862805],center=true);
//gt label: body
translate([-5.481415241956711,-2.4164217710494995,0.005415466730482876])
rotate([-179.91672024987184, 0.10720704194893887, -1.7747561875698454])
cube([13.972000181674963,3.3922076225281037,3.3860469609499253],center=true);
//gt label: tail
translate([-14.985372871160505,-1.6932213027030232,0.017578401166247384])
rotate([-129.11672595006985, 1.4365185575016923, -5.91875990135237])
cube([2.767746057361449,2.6511936262250693,2.5154695473611732],center=true);
//gt label: engine
translate([-0.22363933501765132,-3.3783567883074284,4.0274179726839066])
rotate([-5.691028493805405, -80.30438112928186, 95.55512198454505])
cube([4.3613525480031985,2.4688906595110898,0.8301708148792393],center=true);
//gt label: wing
translate([-3.83928831666708,-1.6292880475521088,13.84933277964592])
rotate([-109.57229119755522, 68.75098238431028, -19.78820746926253])
cube([6.254601627588276,1.677151499316103,0.32551002223044884],center=true);

//gt label: engine
translate([19.155228585004807,-2.840406745672226,0.014593831292586401])
rotate([45.898682719080014, 89.84470967418689, -134.61131681147813])
cube([1.651420677080801,1.6406363435090274,1.2112336419523233],center=true);
//gt label: wing
translate([-17.88649618625641,-1.6755205672234297,3.5308007895946503])
rotate([-121.40486008933163, 72.67759078536278, -32.405874641961816])
cube([5.450109541416168,1.647915402427319,0.1307015737984354],center=true);
//gt label: wing
translate([-17.7386337518692,-1.6821485850960014,-3.6005014181137085])
rotate([115.54155105838161, -68.46903206821945, -25.373668594153667])
cube([5.481317713856701,1.6346948128193666,0.12983383494430006],center=true);
//gt label: wing
translate([-3.8126922398805623,-1.661948999390006,-13.838217854499819])
rotate([108.9185810407197, -68.89575497242774, -19.104765967933826])
cube([6.259281337261205,1.6732768062502206,0.32410754356534577],center=true);
//gt label: body
translate([-1.2090794183313844,-2.39425728097558,-8.642287850379944])
```

```

rotate([115.2356276748709, -74.36285237906799, -23.796308287756684])
cube([4.549195356667054,2.962181642651576,0.5826913658529642],center=true);
//gt label: wing
translate([3.2827888801693916,-3.7463440373539925,4.486278258264065])
rotate([5.763582958161343, -84.35247507826415, -99.1976935652948])
cube([4.696845114231117,3.9415006339550103,1.4838621765375144],center=true);
//gt label: body
translate([-1.2060251086950302,-2.3856407962739468,8.632851392030716])
rotate([-116.06612268142278, 74.25147638894713, -24.488883650841263])
cube([4.538758210837845,2.9628637246787597,0.5826405528932886],center=true);
//gt label: tail
translate([-18.57037141919136,3.960353471338749,0.010860398542718032])
rotate([0.0583913655830972, 0.29460563774497545, 97.54395652116982])
cube([2.8469880484044787,1.7371205240488408,0.16724910237826446],center=true);

```

No Example Question: 2

The following code describes a model airplane.

The airplane is consist of four parts, namely wing, body, tail, and engine.

Please annotate the following code to classify every code block. Block is defined with the 'code' sentence.

Here are an annotation example, please comment the given code following the structure of example.

Notice 1, all annotation should start with '//gt label:', and you should replace the placeholder *** with your prediction

Notice 2, you should only predict parts from wing, body, tail, and engine.

Task:

```

//gt label: ***
translate([-1.5893350262194874,-4.188789688050747,4.360119923949242])
rotate([-10.839169757964955, -86.65302178340283, 99.10954413665007])
cube([5.5495791882276535,2.7453395910561103,0.743680293671789],center=true);
//gt label: ***
translate([2.294098995625973,-4.355607815086842,4.279787912964821])
rotate([-162.71192063282987, -83.86572783321868, -108.06174017839452])
cube([5.190586857497699,4.237833209335811,1.4364818576723428],center=true);
//gt label: ***
translate([17.794046103954315,-2.932734712958336,-0.0025601062225177884])
rotate([-153.01368703836872, 89.49457059464926, 26.33887855148037])
cube([1.3221963401883874,1.2848753482103545,0.9487679041922337],center=true);
//gt label: ***
translate([-1.0291765443980696,-4.379029311239719,9.931433126330376])
rotate([-89.70324549643868, -84.1829831107987, -2.2214055295749935])
cube([4.76372726261617,4.4013271853327876,0.6496309861540865],center=true);
//gt label: ***
translate([-1.5760746877640484,-4.198968671262264,-4.350411780178548])
rotate([13.201863020653578, 86.5395668647182, 101.40184615964846])
cube([5.524439476430418,2.7468611113727097,0.7459424436092397],center=true);
//gt label: ***
translate([10.240879952907562,-2.4842165037989616,-0.01277930488868148])
rotate([179.9366177146892, -0.11114175736444476, -0.8646565240588133])
cube([11.867466717958454,3.4932164102792758,3.2916647568345097],center=true);
//gt label: ***

```

```

translate([-3.303586132824421,-2.1400148421525955,-0.012198599069961402])
rotate([-179.8487821329813, 0.04566453422849723, -1.546757039779757])
cube([13.261167854070663,3.426635861396792,3.194976914674046],center=true);
//gt label: ***
translate([-1.0262832790613174,-4.376330077648163,-9.927223846316338])
rotate([90.23711066443157, -83.74390568369569, 177.74313012338342])
cube([4.7601740434765905,4.400968626141557,0.64976539462805],center=true);
//gt label: ***
translate([-15.441789627075197,0.6475475011393432,-0.009473927784711093])
rotate([0.468714130794327, -0.26210844401817973, 66.58997092676087])
cube([5.233722962439064,2.230983357876548,0.4179071402177218],center=true);
//gt label: ***
translate([-12.712700963020325,-1.1528310086578129,-0.037956243613734876])
rotate([143.6986956534412, 0.46437753244110125, -9.39914650360689])
cube([3.4124705195427207,2.45395533740528,2.405040692538092],center=true);
//gt label: ***
translate([-4.689892344176769,-4.205830469727516,14.676300585269928])
rotate([-92.41374370312249, 71.56159133791489, 0.1150922306163651])
cube([6.07949033379555,2.4659978039562747,0.34893881762401274],center=true);

//gt label: ***
translate([2.3020989634096627,-4.345961958169937,-4.272172935307026])
rotate([160.73347850287567, 83.72395122937961, -110.0326433398113])
cube([5.181406103074554,4.2309546098113096,1.4322108030319223],center=true);
//gt label: ***
translate([-17.14067667722702,4.005718380212784,-0.01963946182513608])
rotate([-0.17231084772373145, -0.15952507820283718, 99.50237198315423])
cube([3.2515583746135364,2.16392930597069,0.1584215543698521],center=true);
//gt label: ***
translate([-4.709801189601421,-4.1979532316327095,-14.662889242172241])
rotate([92.95449334560206, -71.17966014336376, -0.06589732549748115])
cube([6.095076389610771,2.484403364360339,0.34865967929363895],center=true);
//gt label: ***
translate([-14.217626750469208,-1.4404156617820263,-3.50570697337389])
rotate([91.76885955381205, -67.69119752320073, -0.4460848230136764])
cube([5.253285951912408,1.8261546641588369,0.12881031492725242],center=true);
//gt label: ***
translate([-14.379241466522217,-1.4327777363359928,3.432165253907442])
rotate([-89.8906439961192, 72.06486113150841, 0.33916275096654835])
cube([5.22511467337609,1.8507272377610346,0.12722646933981363],center=true);

```

No Example Answer: 2

For the given OpenSCAD codes, the potential predictions are:

```

//gt label: wing
translate([-1.5893350262194874,-4.188789688050747,4.360119923949242])
rotate([-10.839169757964955, -86.65302178340283, 99.10954413665007])
cube([5.5495791882276535,2.7453395910561103,0.743680293671789],center=true);
//gt label: wing
translate([2.294098995625973,-4.355607815086842,4.279787912964821])
rotate([-162.71192063282987, -83.86572783321868, -108.06174017839452])
cube([5.190586857497699,4.237833209335811,1.4364818576723428],center=true);
//gt label: tail
translate([17.794046103954315,-2.932734712958336,-0.0025601062225177884])
rotate([-153.01368703836872, 89.49457059464926, 26.33887855148037])
cube([1.3221963401883874,1.2848753482103545,0.9487679041922337],center=true);

```

```

//gt label: wing
translate([-1.0291765443980696,-4.379029311239719,9.931433126330376])
rotate([-89.70324549643868,-84.1829831107987,-2.2214055295749935])
cube([4.76372726261617,4.4013271853327876,0.6496309861540865],center=true);
//gt label: wing
translate([-1.5760746877640484,-4.198968671262264,-4.350411780178548])
rotate([13.201863020653578,86.5395668647182,101.40184615964846])
cube([5.524439476430418,2.7468611113727097,0.7459424436092397],center=true);
//gt label: body
translate([10.240879952907562,-2.4842165037989616,-0.01277930488868148])
rotate([179.9366177146892,-0.11114175736444476,-0.8646565240588133])
cube([11.867466717958454,3.4932164102792758,3.2916647568345097],center=true);
//gt label: body
translate([-3.303586132824421,-2.1400148421525955,-0.012198599069961402])
rotate([-179.8487821329813,0.04566453422849723,-1.546757039779757])
cube([13.261167854070663,3.426635861396792,3.194976914674046],center=true);
//gt label: wing
translate([-1.0262832790613174,-4.376330077648163,-9.927223846316338])
rotate([90.23711066443157,-83.74390568369569,177.74313012338342])
cube([4.7601740434765905,4.400968626141557,0.64976539462805],center=true);
//gt label: engine
translate([-15.441789627075197,0.6475475011393432,-0.009473927784711093])
rotate([0.468714130794327,-0.26210844401817973,66.58997092676087])
cube([5.233722962439064,2.230983357876548,0.4179071402177218],center=true);
//gt label: engine
translate([-12.712700963020325,-1.1528310086578129,-0.037956243613734876])
rotate([143.6986956534412,0.46437753244110125,-9.39914650360689])
cube([3.4124705195427207,2.45395533740528,2.405040692538092],center=true);
//gt label: wing
translate([-4.689892344176769,-4.205830469727516,14.676300585269928])
rotate([-92.41374370312249,71.56159133791489,0.1150922306163651])
cube([6.07949033379555,2.4659978039562747,0.34893881762401274],center=true);

//gt label: wing
translate([2.3020989634096627,-4.345961958169937,-4.272172935307026])
rotate([160.73347850287567,83.72395122937961,-110.0326433398113])
cube([5.181406103074554,4.2309546098113096,1.4322108030319223],center=true);
//gt label: tail
translate([-17.14067667722702,4.005718380212784,-0.01963946182513608])
rotate([-0.17231084772373145,-0.15952507820283718,99.50237198315423])
cube([3.2515583746135364,2.16392930597069,0.1584215543698521],center=true);
//gt label: wing
translate([-4.709801189601421,-4.1979532316327095,-14.662889242172241])
rotate([92.95449334560206,-71.17966014336376,-0.06589732549748115])
cube([6.095076389610771,2.484403364360339,0.34865967929363895],center=true);
//gt label: tail
translate([-14.217626750469208,-1.4404156617820263,-3.50570697337389])
rotate([91.76885955381205,-67.69119752320073,-0.4460848230136764])
cube([5.253285951912408,1.8261546641588369,0.12881031492725242],center=true);
//gt label: tail
translate([-14.379241466522217,-1.432777363359928,3.432165253907442])
rotate([-89.8906439961192,72.06486113150841,0.33916275096654835])
cube([5.22511467337609,1.8507272377610346,0.12722646933981363],center=true);

```


No Example Question: 3

The following code describes a model airplane.

The airplane is consist of four parts , namely wing , body , tail , and engine .

Please annotate the following code to classify every code block . Block is defined with the 'code' sentence .

Here are an annotation example , please comment the given code following the structure of example .

Notice 1 , all annotation should start with '//gt label:' , and you should replace the placeholder *** with your prediction

Notice 2 , you should only predict parts from wing , body , tail , and engine .

Task :

```
//gt label: ***
translate([-14.322124421596527,-0.8669077139347791,-0.01120624168834193])
rotate([139.1750210010532, 1.0586025700072843, -8.062447364094146])
cube([3.378987442702065,2.51641757786275,2.4365506693720933],center=true);
//gt label: ***
translate([19.35147315263748,-2.3588359355926514,-0.017098860262194666])
rotate([103.22551892903451, -89.68850952659633, -103.02606851346802])
cube([1.4854588918388032,1.4666296169162056,0.9966680314392127],center=true);
//gt label: ***
translate([0.49646740779280674,-3.4003819525241856,-4.430934749543667])
rotate([169.43364803307446, -82.54568553642547, -80.71195981728893])
cube([4.822181425988676,2.514653671532871,0.7399983005598232],center=true);
//gt label: ***
translate([-4.05317522585392,-2.556444462388754,-13.916282951831818])
rotate([104.83362697532066, -63.78530813281644, -9.99065022559133])
cube([6.71284642070532,2.1321101486682927,0.3067173971794662],center=true);
//gt label: ***
translate([-18.86580780148506,4.120122529566288,-0.03561457677278668])
rotate([0.015577260699152738, 0.23327545333733019, 94.02326829810939])
cube([2.348678056150694,1.7517704330385009,0.14861202798783824],center=true);
//gt label: ***
translate([-16.954638957977295,0.9377738647162914,-0.0187698789522983])
rotate([0.17586049775788598, 0.2639966728596206, 70.2598060147382])
cube([5.249424576759342,2.284606192260994,0.38507016142830297],center=true);
//gt label: ***
translate([4.485025964677334,-3.4974084794521336,4.64983657002449])
rotate([-1.5794320693704758, -82.50112081866051, -90.85857518356286])
cube([5.2757825702428836,3.977863043546678,1.3635911792516748],center=true);
//gt label: ***
translate([-0.3295525722205638,-3.1723587960004807,-9.958050921559334])
rotate([-33.57586497967647, -82.35632091017473, 124.19392975594913])
cube([4.933460578322414,3.70298828929663,0.6161986198276308],center=true);
//gt label: ***
translate([0.4944535344839095,-3.3902707882225513,4.4299811869859695])
rotate([-169.70305450083723, 82.40043095194424, -81.27587109581378])
cube([4.816342443227768,2.51477885991335,0.7377750286832456],center=true);
//gt label: ***
translate([-18.031493425369263,-0.879371538758278,3.3500738441944127])
rotate([-111.45557055257179, 70.98867524928433, -21.415623979541834])
cube([5.698197670280939,1.857860721647753,0.11583969229832725],center=true);
//gt label: ***
```

```

translate([-17.88057565689087,-0.8994258567690849,-3.4547751769423485])
rotate([107.22073837463746,-65.46056644774335,-16.068992305603714])
cube([5.685839876532558,1.8444823659956526,0.1169114129152275],center=true);
//gt label: ***
translate([-4.4803401082754135,-2.3446794040501118,-0.010926213362836307])
rotate([179.99832540193842,0.02092757387061096,-4.407551599006336])
cube([14.15883451700211,3.96681245416403,3.30937020480633],center=true);
//gt label: ***
translate([-4.047834537923336,-2.5251344591379166,13.977147042751312])
rotate([-104.84296394673429,63.76993566668482,-10.467470552035177])
cube([6.699303947389131,2.119463663548242,0.30590198235588006],center=true);

//gt label: ***
translate([-0.3278399910777808,-3.1725186109542847,9.961305409669876])
rotate([33.92674482592437,82.53643281067012,124.41954626868937])
cube([4.929474629461776,3.7014614418149105,0.614628540351993],center=true);
//gt label: ***
translate([4.486228674650192,-3.5031433776021004,-4.64188925921917])
rotate([179.0626689301875,-82.27737919139358,88.5497614067408])
cube([5.281359702348712,3.9733247086405776,1.3640574086457538],center=true);
//gt label: ***
translate([10.91297559440136,-2.18883503228426,-0.016058923356467743])
rotate([0.06424524681481897,-0.36448483783202995,1.5600131310411343])
cube([13.592597842216492,4.056088775396351,3.3325081318616876],center=true);

```

No Example Answer: 3

```

//gt label: engine
translate([-14.322124421596527,-0.8669077139347791,-0.01120624168834193])
rotate([139.1750210010532,1.0586025700072843,-8.062447364094146])
cube([3.378987442702065,2.51641757786275,2.4365506693720933],center=true);

//gt label: engine
translate([19.35147315263748,-2.3588359355926514,-0.017098860262194666])
rotate([103.22551892903451,-89.68850952659633,-103.02606851346802])
cube([1.4854588918388032,1.4666296169162056,0.9966680314392127],center=true);

//gt label: wing
translate([0.49646740779280674,-3.4003819525241856,-4.430934749543667])
rotate([169.43364803307446,-82.54568553642547,-80.71195981728893])
cube([4.822181425988676,2.514653671532871,0.7399983005598232],center=true);

//gt label: tail
translate([-4.05317522585392,-2.556444462388754,-13.916282951831818])
rotate([104.83362697532066,-63.78530813281644,-9.99065022559133])
cube([6.71284642070532,2.1321101486682927,0.3067173971794662],center=true);

//gt label: engine
translate([-18.86580780148506,4.120122529566288,-0.03561457677278668])
rotate([0.015577260699152738,0.23327545333733019,94.02326829810939])
cube([2.348678056150694,1.7517704330385009,0.14861202798783824],center=true);

//gt label: body
translate([-16.954638957977295,0.9377738647162914,-0.0187698789522983])
rotate([0.17586049775788598,0.2639966728596206,70.2598060147382])
cube([5.249424576759342,2.284606192260994,0.38507016142830297],center=true);

```

```

//gt label: wing
translate([4.485025964677334,-3.4974084794521336,4.64983657002449])
rotate([-1.5794320693704758,-82.50112081866051,-90.85857518356286])
cube([5.2757825702428836,3.977863043546678,1.3635911792516748],center=true);

//gt label: tail
translate([-0.3295525722205638,-3.1723587960004807,-9.958050921559334])
rotate([-33.57586497967647,-82.35632091017473,124.19392975594913])
cube([4.933460578322414,3.70298828929663,0.6161986198276308],center=true);

//gt label: wing
translate([0.4944535344839095,-3.3902707882225513,4.4299811869859695])
rotate([-169.70305450083723,82.40043095194424,-81.27587109581378])
cube([4.816342443227768,2.51477885991335,0.7377750286832456],center=true);

//gt label: body
translate([-18.031493425369263,-0.879371538758278,3.3500738441944127])
rotate([-111.45557055257179,70.98867524928433,-21.415623979541834])
cube([5.698197670280939,1.857860721647753,0.11583969229832725],center=true);

//gt label: body
translate([-17.88057565689087,-0.8994258567690849,-3.4547751769423485])
rotate([107.22073837463746,-65.46056644774335,-16.068992305603714])
cube([5.685839876532558,1.8444823659956526,0.1169114129152275],center=true);

//gt label: body
translate([-4.4803401082754135,-2.3446794040501118,-0.010926213362836307])
rotate([179.99832540193842,0.02092757387061096,-4.407551599006336])
cube([14.15883451700211,3.96681245416403,3.30937020480633],center=true);

//gt label: tail
translate([-4.047834537923336,-2.5251344591379166,13.977147042751312])
rotate([-104.84296394673429,63.76993566668482,-10.467470552035177])
cube([6.699303947389131,2.119463663548242,0.30590198235588006],center=true);

//gt label: tail
translate([-0.3278399910777808,-3.1725186109542847,9.961305409669876])
rotate([33.92674482592437,82.53643281067012,124.41954626868937])
cube([4.929474629461776,3.7014614418149105,0.614628540351993],center=true);

//gt label: wing
translate([4.486228674650192,-3.5031433776021004,-4.64188925921917])
rotate([179.0626689301875,-82.27737919139358,88.5497614067408])
cube([5.281359702348712,3.9733247086405776,1.3640574086457538],center=true);

//gt label: body
translate([10.91297559440136,-2.18883503228426,-0.016058923356467743])
rotate([0.06424524681481897,-0.36448483783202995,1.5600131310411343])
cube([13.592597842216492,4.056088775396351,3.3325081318616876],center=true);

```

No Example Question: 4

The following code describes a model airplane.
The airplane is consist of four parts, namely wing, body, tail, and engine.

Please annotate the following code to classify every code block. Block is defined

with the 'code' sentence.

Here are an annotation example, please comment the given code following the structure of example.

Notice 1, all annotation should start with '//gt label:', and you should replace the placeholder *** with your prediction

Notice 2, you should only predict parts from wing, body, tail, and engine.

Task:

```
//gt label: ***
translate([3.5717224329710007,-0.7832196913659571,0.048454075586050804])
rotate([64.21646037555853,-89.92472175650519,-156.14423337454508])
cube([7.313624843955042,4.448320977389814,2.53123488277197],center=true);
//gt label: ***
translate([-6.632417291402817,0.042038779356516884,0.12106833048164842])
rotate([-2.7018029000444166,-89.3967839932089,-91.08199256885845])
cube([3.0631588771939287,1.395140290260329,1.2514802720397846],center=true);
//gt label: ***
translate([-5.55074255913496,-0.11100573814474046,-19.73050832748413])
rotate([83.78349109368294,-79.29331185591928,2.630074341079378])
cube([8.78828905522824,3.86009335517884,0.8084750128909952],center=true);
//gt label: ***
translate([-5.636060796678066,-0.11684840894304216,19.767055958509445])
rotate([-83.49157131139361,79.07282323743146,3.0570158717859184])
cube([8.758708536624912,3.8033426553010985,0.7928261067718279],center=true);

//gt label: ***
translate([1.8948503024876118,-0.4846544191241265,6.544039212167263])
rotate([96.02241750533642,-3.1346558991233366,0.12475104841918119])
cube([5.755106955766679,4.3895303830504435,2.031264044344426],center=true);
//gt label: ***
translate([-5.989491157233715,0.15583618893288073,4.4798192754387856])
rotate([86.43053739620203,-7.2321807615674985,-1.2067466120143868])
cube([1.7808299139142107,1.363333221524963,0.9327511675655858],center=true);
//gt label: ***
translate([7.582060694694519,-0.8136134734377265,0.010673422730178574])
rotate([117.5908223508261,-89.88028052667747,151.2633523186206])
cube([2.9756208509206776,2.2291155718266973,1.6206164471805113],center=true);
//gt label: ***
translate([1.9122754596173763,-0.4782107518985869,-6.530029997229575])
rotate([-95.75699191593023,3.2416210445054503,0.1610515868166719])
cube([5.7569894939661115,4.427450783550748,2.0465208403766164],center=true);
//gt label: ***
translate([-4.929370135068893,-0.5756483925506473,7.199982479214668])
rotate([-87.08286068428667,-2.7126465891434703,-2.3110198425153032])
cube([4.817005470395101,3.8513572141528303,1.1392100621014838],center=true);
//gt label: ***
translate([-2.7720776572823524,-0.18513750517740848,12.895326837897302])
rotate([54.223714049713195,-82.86780415923307,-145.31477929124017])
cube([5.710964836180443,5.557915382087465,0.9538877196609985],center=true);
//gt label: ***
translate([-2.74593910202384,-0.16718886443413794,-12.884780690073967])
rotate([-123.40912611547402,-83.20658375898917,32.257242035233844])
cube([5.676467753946797,5.533650554716602,0.9517370816320206],center=true);
//gt label: ***
translate([-7.908781468868256,0.5355192162096499,0.12190410634502771])
rotate([-169.43527643470225,89.51704969640711,106.068263012849])
```

```

cube([2.740756589919329,1.0123296920210139,0.3820433071814509],center=true);
//gt label: ***
translate([-2.346137408167124,0.2446413505822419,0.03922483883798123])
rotate([91.7418282457279, 1.435789465910794, 177.94691896766312])
cube([5.6527036800980675,5.3877161443233605,2.396653685718777],center=true);
//gt label: ***
translate([-4.937656745314598,-0.5644229799509047,-7.185888439416885])
rotate([-92.91445405869247, 2.455161973253575, -2.4629148932128375])
cube([4.833789318799984,3.843483254313482,1.1417334992438573],center=true);
//gt label: ***
translate([-6.006421707570553,0.19017482642084363,-4.3698641285300255])
rotate([-86.15866192972756, 7.901237713326876, -0.04428547162047872])
cube([1.8119565397500996,1.400645608082416,0.9536156244576006],center=true);
//gt label: ***
translate([9.820144549012184,-1.0545084439218044,0.05640826944727452])
rotate([114.05685845481116, 89.85865331195842, -156.58582582443725])
cube([0.8348011970520022,0.3526416327804888,0.3014790266752922],center=true);

```

No Example Answer: 4

```

//gt label: wing
translate([3.5717224329710007,-0.7832196913659571,0.048454075586050804])
rotate([64.21646037555853, -89.92472175650519, -156.14423337454508])
cube([7.313624843955042,4.448320977389814,2.53123488277197],center=true);
//gt label: engine
translate([-6.632417291402817,0.042038779356516884,0.12106833048164842])
rotate([-2.7018029000444166, -89.3967839932089, -91.08199256885845])
cube([3.0631588771939287,1.395140290260329,1.2514802720397846],center=true);
//gt label: tail
translate([-5.55074255913496,-0.11100573814474046,-19.73050832748413])
rotate([83.78349109368294, -79.29331185591928, 2.630074341079378])
cube([8.78828905522824,3.86009335517884,0.8084750128909952],center=true);
//gt label: tail
translate([-5.636060796678066,-0.11684840894304216,19.767055958509445])
rotate([-83.49157131139361, 79.07282323743146, 3.0570158717859184])
cube([8.758708536624912,3.8033426553010985,0.7928261067718279],center=true);

//gt label: body
translate([1.8948503024876118,-0.4846544191241265,6.544039212167263])
rotate([96.02241750533642, -3.1346558991233366, 0.12475104841918119])
cube([5.755106955766679,4.3895303830504435,2.031264044344426],center=true);
//gt label: engine
translate([-5.989491157233715,0.15583618893288073,4.4798192754387856])
rotate([86.43053739620203, -7.2321807615674985, -1.2067466120143868])
cube([1.7808299139142107,1.363333221524963,0.9327511675655858],center=true);
//gt label: wing
translate([7.582060694694519,-0.8136134734377265,0.010673422730178574])
rotate([117.5908223508261, -89.88028052667747, 151.2633523186206])
cube([2.9756208509206776,2.2291155718266973,1.6206164471805113],center=true);
//gt label: body
translate([1.9122754596173763,-0.4782107518985869,-6.530029997229575])
rotate([-95.75699191593023, 3.2416210445054503, 0.1610515868166719])
cube([5.7569894939661115,4.427450783550748,2.0465208403766164],center=true);
//gt label: engine
translate([-4.929370135068893,-0.5756483925506473,7.199982479214668])
rotate([-87.08286068428667, -2.7126465891434703, -2.3110198425153032])
cube([4.817005470395101,3.8513572141528303,1.1392100621014838],center=true);

```

```

//gt label: wing
translate([-2.7720776572823524,-0.18513750517740848,12.895326837897302])
rotate([54.223714049713195,-82.86780415923307,-145.31477929124017])
cube([5.710964836180443,5.557915382087465,0.9538877196609985],center=true);
//gt label: wing
translate([-2.74593910202384,-0.16718886443413794,-12.884780690073967])
rotate([-123.40912611547402,-83.20658375898917,32.257242035233844])
cube([5.676467753946797,5.533650554716602,0.9517370816320206],center=true);
//gt label: engine
translate([-7.908781468868256,0.5355192162096499,0.12190410634502771])
rotate([-169.43527643470225,89.51704969640711,106.068263012849])
cube([2.740756589919329,1.0123296920210139,0.3820433071814509],center=true);
//gt label: body
translate([-2.346137408167124,0.2446413505822419,0.03922483883798123])
rotate([91.7418282457279,1.435789465910794,177.94691896766312])
cube([5.6527036800980675,5.3877161443233605,2.396653685718777],center=true);
//gt label: engine
translate([-4.937656745314598,-0.5644229799509047,-7.185888439416885])
rotate([-92.91445405869247,2.455161973253575,-2.4629148932128375])
cube([4.833789318799984,3.843483254313482,1.1417334992438573],center=true);
//gt label: engine
translate([-6.006421707570553,0.19017482642084363,-4.3698641285300255])
rotate([-86.15866192972756,7.901237713326876,-0.04428547162047872])
cube([1.8119565397500996,1.400645608082416,0.9536156244576006],center=true);
//gt label: engine
translate([9.820144549012184,-1.0545084439218044,0.05640826944727452])
rotate([114.05685845481116,89.85865331195842,-156.58582582443725])
cube([0.8348011970520022,0.3526416327804888,0.3014790266752922],center=true);

```

No Example Question: 5

The following code describes a model airplane.

The airplane is consist of four parts, namely wing, body, tail, and engine.

Please annotate the following code to classify every code block. Block is defined with the 'code' sentence.

Here are an annotation example, please comment the given code following the structure of example.

Notice 1, all annotation should start with '//gt label:', and you should replace the placeholder *** with your prediction

Notice 2, you should only predict parts from wing, body, tail, and engine.

Task:

```

//gt label: ***
translate([-16.74896940588951,-1.8076939880847933,-3.172638062387705])
rotate([100.91012515470068,-75.7748431983143,-11.286440711293574])
cube([4.2876352369785575,1.8424689024687435,0.11376293026844068],center=true);
//gt label: ***
translate([2.6666569523513317,-3.648683577775955,-15.2097088098526])
rotate([99.60243246282673,-81.53295681944715,-8.493162511796692])
cube([5.2578878030181,2.996884845197213,0.3275234345346707],center=true);
//gt label: ***
translate([2.975103911012411,-3.8078416511416435,-4.661385454237461])
rotate([47.30279482263276,89.86604992485822,137.7311591465931])

```

```

cube([5.90829409658909,2.4130767211318025,0.5818469077348721],center=true);
//gt label: ***
translate([2.6687964238226414,-3.6889594048261642,15.20717144012451])
rotate([-99.75075158696876, 81.69817719279854, -8.666054939714511])
cube([5.23786913603545,2.981903627514853,0.328212995082151],center=true);

//gt label: ***
translate([2.9740624502301216,-3.8214775547385216,4.676979295909405])
rotate([48.991454332548564, 89.84962237121421, -40.38957160626654])
cube([5.944863446056845,2.4114754982292657,0.5809047678485555],center=true);
//gt label: ***
translate([6.481567546725273,-3.873779661953449,-4.647144712507725])
rotate([173.34208878648465, 84.45186140354788, -96.95115390985654])
cube([5.627899579703813,3.557060845196259,1.14821819588543],center=true);
//gt label: ***
translate([18.170802891254425,-2.210857532918453,-0.04945462540490554])
rotate([-51.71227500620777, 89.96138128009756, 127.8807185530091])
cube([1.313095698133111,1.2585127446800708,0.8108676783740897],center=true);
//gt label: ***
translate([-16.854973435401917,-1.8270086497068405,3.154975026845932])
rotate([-100.76540340709951, 79.28596712731512, -11.788116532293104])
cube([4.287483207881452,1.8517297692596948,0.11259619146585866],center=true);
//gt label: ***
translate([4.098080359399319,-3.8107724115252495,10.418190136551857])
rotate([-58.7244183672916, -85.70800509331495, -32.428692893220024])
cube([4.487958364188948,4.443379007280153,0.5954402964562203],center=true);
//gt label: ***
translate([-3.4958427026867867,-2.4658922851085667,-0.011555958553799345])
rotate([-179.87435738316125, 0.17214619344374193, -0.1073028669735464])
cube([14.646199643611912,3.5272586345672634,3.0887274257838744],center=true);
//gt label: ***
translate([-13.871272504329681,-1.8559787981212141,0.029614210361614837])
rotate([139.56730956917485, 0.6282807067036446, -8.081027930114278])
cube([4.343831501901157,2.434399109333779,2.3602771386504413],center=true);
//gt label: ***
translate([4.088809043169022,-3.7932689860463142,-10.431443303823471])
rotate([118.52024709354355, -85.50993289630408, 150.1964690427789])
cube([4.502600282430759,4.446491710841766,0.5941733019426494],center=true);
//gt label: ***
translate([10.669450387358665,-2.730014566332102,-0.029037086933385737])
rotate([0.16200673988774242, -0.203938913393779, 0.09303678984283609])
cube([13.310545757412914,3.838756829500202,3.3505299314856574],center=true);
//gt label: ***
translate([-17.439861744642258,4.058343805372715,0.06194746471010148])
rotate([0.3603979699975381, -0.41050285760381033, 103.64422874165668])
cube([2.781330123543786,2.191038429737147,0.14844513149000793],center=true);
//gt label: ***
translate([-17.030799388885498,0.1135369227267802,0.039311418076977134])
rotate([1.504735854888443, -0.8910460515539764, 64.2993925632759])
cube([4.876379184424877,2.20578094944358,0.35494230221957024],center=true);
//gt label: ***
translate([6.480830758810043,-3.8918178528547287,4.650183245539665])
rotate([-173.87965615422672, -84.45812372469528, -96.51373201756485])
cube([5.633834451436998,3.5788333788514164,1.15461120381952],center=true);

```

No Example Answer: 5

```
//gt label: wing
translate([-16.74896940588951,-1.8076939880847933,-3.172638062387705])
rotate([100.91012515470068,-75.7748431983143,-11.286440711293574])
cube([4.2876352369785575,1.8424689024687435,0.11376293026844068],center=true);
//gt label: body
translate([2.6666569523513317,-3.648683577775955,-15.2097088098526])
rotate([99.60243246282673,-81.53295681944715,-8.493162511796692])
cube([5.2578878030181,2.996884845197213,0.3275234345346707],center=true);
//gt label: body
translate([2.975103911012411,-3.8078416511416435,-4.661385454237461])
rotate([47.30279482263276,89.86604992485822,137.7311591465931])
cube([5.90829409658909,2.4130767211318025,0.5818469077348721],center=true);
//gt label: body
translate([2.6687964238226414,-3.6889594048261642,15.20717144012451])
rotate([-99.75075158696876,81.69817719279854,-8.666054939714511])
cube([5.23786913603545,2.981903627514853,0.328212995082151],center=true);

//gt label: body
translate([2.9740624502301216,-3.8214775547385216,4.676979295909405])
rotate([48.991454332548564,89.84962237121421,-40.38957160626654])
cube([5.944863446056845,2.4114754982292657,0.5809047678485555],center=true);
//gt label: body
translate([6.481567546725273,-3.873779661953449,-4.647144712507725])
rotate([173.34208878648465,84.45186140354788,-96.95115390985654])
cube([5.627899579703813,3.557060845196259,1.14821819588543],center=true);
//gt label: tail
translate([18.170802891254425,-2.210857532918453,-0.04945462540490554])
rotate([-51.71227500620777,89.96138128009756,127.8807185530091])
cube([1.313095698133111,1.2585127446800708,0.8108676783740897],center=true);
//gt label: wing
translate([-16.854973435401917,-1.8270086497068405,3.154975026845932])
rotate([-100.76540340709951,79.28596712731512,-11.788116532293104])
cube([4.287483207881452,1.8517297692596948,0.11259619146585866],center=true);
//gt label: body
translate([4.098080359399319,-3.8107724115252495,10.418190136551857])
rotate([-58.7244183672916,-85.70800509331495,-32.428692893220024])
cube([4.487958364188948,4.443379007280153,0.5954402964562203],center=true);
//gt label: body
translate([-3.4958427026867867,-2.4658922851085667,-0.011555958553799345])
rotate([-179.87435738316125,0.17214619344374193,-0.1073028669735464])
cube([14.646199643611912,3.5272586345672634,3.0887274257838744],center=true);
//gt label: body
translate([-13.871272504329681,-1.8559787981212141,0.029614210361614837])
rotate([139.56730956917485,0.6282807067036446,-8.081027930114278])
cube([4.343831501901157,2.434399109333779,2.3602771386504413],center=true);
//gt label: body
translate([4.088809043169022,-3.7932689860463142,-10.431443303823471])
rotate([118.52024709354355,-85.50993289630408,150.1964690427789])
cube([4.502600282430759,4.446491710841766,0.5941733019426494],center=true);
//gt label: body
translate([10.669450387358665,-2.730014566332102,-0.029037086933385737])
rotate([0.16200673988774242,-0.203938913393779,0.09303678984283609])
cube([13.310545757412914,3.838756829500202,3.3505299314856574],center=true);
//gt label: engine
translate([-17.439861744642258,4.058343805372715,0.06194746471010148])
rotate([0.3603979699975381,-0.41050285760381033,103.64422874165668])
```



```

cube([2.781330123543786,2.191038429737147,0.14844513149000793],center=true);
//gt label: engine
translate([-17.030799388885498,0.1135369227267802,0.039311418076977134])
rotate([1.504735854888443, -0.8910460515539764, 64.2993925632759])
cube([4.876379184424877,2.20578094944358,0.35494230221957024],center=true);
//gt label: body
translate([6.480830758810043,-3.8918178528547287,4.650183245539665])
rotate([-173.87965615422672, -84.45812372469528, -96.51373201756485])
cube([5.633834451436998,3.5788333788514164,1.15461120381952],center=true);

```

No Example Question: 6

The following code describes a model airplane.

The airplane is consist of four parts, namely wing, body, tail, and engine.

Please annotate the following code to classify every code block. Block is defined with the 'code' sentence.

Here are an annotation example, please comment the given code following the structure of example.

Notice 1, all annotation should start with '//gt label:', and you should replace the placeholder *** with your prediction

Notice 2, you should only predict parts from wing, body, tail, and engine.

Task:

```

//gt label: ***
translate([-5.248141549527645,-2.4729768000543118,14.026461839675903])
rotate([-110.65534389727655, 69.0608673104898, -21.212035742382476])
cube([6.437081620097162,1.4740151166915916,0.3055525664240132],center=true);

//gt label: ***
translate([-19.0590101480484,3.899596743285656,-0.015259650099324062])
rotate([179.87360191101203, -0.1504050145781123, -82.24047650306181])
cube([2.9095115512609544,1.5957570262253378,0.17636689124628913],center=true);
//gt label: ***
translate([-2.6921517401933674,-3.1398325599730015,-8.746909275650978])
rotate([112.13637190067487, -75.12611967736886, -20.983249684429193])
cube([4.473304972052578,2.768377121537928,0.5180199397727886],center=true);
//gt label: ***
translate([-1.375533966347575,-3.8190151751041412,-4.19157087802887])
rotate([-170.30973055281905, -85.3349746501877, -99.51727931068837])
cube([4.165925495326521,2.2408275492489347,0.7595643633976623],center=true);
//gt label: ***
translate([-15.522877275943756,-1.9791559688746931,-0.027850332844536762])
rotate([-177.88706452954585, -51.650273502731835, 79.08214167670563])
cube([2.970514353364778,2.878327351063629,2.7701754495502247],center=true);
//gt label: ***
translate([-2.6840487122535706,-3.134591039270163,8.759698569774628])
rotate([-112.97692722512515, 75.05406084693053, -21.641985213729217])
cube([4.461636841297151,2.7660100162029293,0.5161132244393295],center=true);
//gt label: ***
translate([9.872481897473335,-3.1046685576438904,-0.01761319261277086])
rotate([0.18251522455821348, -0.170573144795035, 0.08616103231700017])
cube([14.553167670965198,3.7681866437196785,3.739449456334119],center=true);
//gt label: ***

```

```

translate([-6.000542156398296,-2.798768598586321,-0.010049709017039275])
rotate([90.00454549265245, 0.07107798946183885, -1.6802750977639527])
cube([14.244629740715032,3.8977949321270002,3.760322518646719],center=true);
//gt label: ***
translate([-18.50606679916382,-1.5162854548543692,3.581559658050537])
rotate([-121.4253857359514, 71.25195714953539, -32.351150232989944])
cube([5.068529620766643,1.4543186407536397,0.12695063487629138],center=true);
//gt label: ***
translate([-17.680680751800537,-0.09093458065763116,-0.01035835164657329])
rotate([-0.12271285867400726, 0.4463140169460616, 76.286960688138])
cube([5.594065114855767,2.211204208433628,0.6109681120142345],center=true);
//gt label: ***
translate([1.7925461940467355,-4.249418154358864,-4.342959076166153])
rotate([-173.46678831919925, -85.80540001321393, 80.03467039580622])
cube([4.222032018005853,3.5428266599774396,1.3572934456169667],center=true);
//gt label: ***
translate([1.788662485778332,-4.24810316413641,4.329006001353264])
rotate([5.257742675541998, -85.83462501802028, -98.78805930193221])
cube([4.208869822323326,3.552731908857825,1.3579544238746193],center=true);
//gt label: ***
translate([-5.248727947473526,-2.4745253659784794,-14.013840556144714])
rotate([109.89424263203908, -69.12760625537017, -20.417955850814955])
cube([6.435828916728497,1.4722913689911428,0.3030487219803177],center=true);
//gt label: ***
translate([-18.41372162103653,-1.5141951572149992,-3.6957982555031776])
rotate([117.77855361825083, -67.89409558375439, -27.545279549129397])
cube([5.076169185340406,1.4379124063998556,0.12569904560223977],center=true);
//gt label: ***
translate([-1.3676349073648455,-3.8242382556200023,4.198714606463909])
rotate([168.51254903240823, 85.14183180245382, -101.15045847816913])
cube([4.160876572132112,2.247832566499712,0.7658232701942345],center=true);
//gt label: ***
translate([18.883921802043915,-3.377793747931719,-0.0054192187963053445])
rotate([-52.09877395163174, -89.8803221224425, -127.95469705893517])
cube([1.7406602203846013,1.6422848962247458,1.115490552037962],center=true);

```

No Example Answer: 6

```

//gt label: wing
translate([-5.248141549527645,-2.4729768000543118,14.026461839675903])
rotate([-110.65534389727655, 69.0608673104898, -21.212035742382476])
cube([6.437081620097162,1.4740151166915916,0.3055525664240132],center=true);

//gt label: wing
translate([-19.0590101480484,3.899596743285656,-0.015259650099324062])
rotate([179.87360191101203, -0.1504050145781123, -82.24047650306181])
cube([2.9095115512609544,1.5957570262253378,0.17636689124628913],center=true);

//gt label: body
translate([-2.6921517401933674,-3.1398325599730015,-8.746909275650978])
rotate([112.13637190067487, -75.12611967736886, -20.983249684429193])
cube([4.473304972052578,2.768377121537928,0.5180199397727886],center=true);

//gt label: tail
translate([-1.375533966347575,-3.8190151751041412,-4.19157087802887])
rotate([-170.30973055281905, -85.3349746501877, -99.51727931068837])
cube([4.165925495326521,2.2408275492489347,0.7595643633976623],center=true);

```

```

//gt label: engine
translate([-15.522877275943756,-1.9791559688746931,-0.027850332844536762])
rotate([-177.88706452954585,-51.650273502731835,79.08214167670563])
cube([2.970514353364778,2.878327351063629,2.7701754495502247],center=true);

//gt label: body
translate([-2.6840487122535706,-3.134591039270163,8.759698569774628])
rotate([-112.97692722512515,75.05406084693053,-21.641985213729217])
cube([4.461636841297151,2.7660100162029293,0.5161132244393295],center=true);

//gt label: body
translate([9.872481897473335,-3.1046685576438904,-0.01761319261277086])
rotate([0.18251522455821348,-0.170573144795035,0.08616103231700017])
cube([14.553167670965198,3.7681866437196785,3.739449456334119],center=true);

//gt label: body
translate([-6.000542156398296,-2.798768598586321,-0.010049709017039275])
rotate([90.00454549265245,0.07107798946183885,-1.6802750977639527])
cube([14.244629740715032,3.8977949321270002,3.760322518646719],center=true);

//gt label: wing
translate([-18.50606679916382,-1.5162854548543692,3.581559658050537])
rotate([-121.4253857359514,71.25195714953539,-32.351150232989944])
cube([5.068529620766643,1.4543186407536397,0.12695063487629138],center=true);

//gt label: engine
translate([-17.680680751800537,-0.09093458065763116,-0.01035835164657329])
rotate([-0.12271285867400726,0.4463140169460616,76.286960688138])
cube([5.594065114855767,2.211204208433628,0.6109681120142345],center=true);

//gt label: tail
translate([1.7925461940467355,-4.249418154358864,-4.342959076166153])
rotate([-173.46678831919925,-85.80540001321393,80.03467039580622])
cube([4.222032018005853,3.5428266599774396,1.3572934456169667],center=true);

//gt label: tail
translate([1.788662485778332,-4.24810316413641,4.329006001353264])
rotate([5.257742675541998,-85.83462501802028,-98.78805930193221])
cube([4.208869822323326,3.552731908857825,1.3579544238746193],center=true);

//gt label: wing
translate([-5.248727947473526,-2.4745253659784794,-14.013840556144714])
rotate([109.89424263203908,-69.12760625537017,-20.417955850814955])
cube([6.435828916728497,1.4722913689911428,0.3030487219803177],center=true);

//gt label: wing
translate([-18.41372162103653,-1.5141951572149992,-3.6957982555031776])
rotate([117.77855361825083,-67.89409558375439,-27.545279549129397])
cube([5.076169185340406,1.4379124063998556,0.12569904560223977],center=true);

//gt label: tail
translate([-1.3676349073648455,-3.8242382556200023,4.198714606463909])
rotate([168.51254903240823,85.14183180245382,-101.15045847816913])
cube([4.160876572132112,2.247832566499712,0.7658232701942345],center=true);

//gt label: engine
translate([18.883921802043915,-3.377793747931719,-0.0054192187963053445])

```

```
rotate([-52.09877395163174, -89.8803221224425, -127.95469705893517])
cube([1.7406602203846013,1.6422848962247458,1.115490552037962],center=true);
```

No Example Question: 7

The following code describes a model airplane.

The airplane is consist of four parts, namely wing, body, tail, and engine.

Please annotate the following code to classify every code block. Block is defined with the 'code' sentence.

Here are an annotation example, please comment the given code following the structure of example.

Notice 1, all annotation should start with '//gt label:', and you should replace the placeholder *** with your prediction

Notice 2, you should only predict parts from wing, body, tail, and engine.

Task:

```
//gt label: ***
translate([-16.616878658533096,3.770411349833012,0.05463805631734431])
rotate([0.06876515030771553, -0.08831176407319571, 97.5747663466869])
cube([2.4647250212729257,1.5671994257718742,0.14074128237552955],center=true);
//gt label: ***
translate([-15.576755404472351,0.2548976545222104,0.01998864725464954])
rotate([0.5050914169017917, 0.3444020031520882, 67.53598836906558])
cube([5.254709944128993,1.9854571856558405,0.38667230634018807],center=true);
//gt label: ***
translate([-0.07860784709919244, -3.1628256291151047,4.195363819599152])
rotate([-173.73234439557632, 77.8640133450877, -84.83953194451486])
cube([4.951052926480771,2.581791114062071,0.9215742629021417],center=true);
//gt label: ***
translate([3.7751861289143567, -3.4400390088558197, -4.794585891067983])
rotate([-153.61629884770636, -84.13249479045038, 57.786741596795316])
cube([5.168773345649248,3.9960995689034524,1.7041274439543503],center=true);
//gt label: ***
translate([-16.08968436717987, -1.521627577021718,3.321653418242932])
rotate([-115.59567814619595, 73.28218546640423, -26.52712823939206])
cube([5.262804366648199,1.4352577365934929,0.1354673760943259],center=true);
//gt label: ***
translate([-4.394926801323891, -1.2792529352009296,15.070446878671646])
rotate([-108.04407198002691, 65.01144909189343, -17.875282409222383])
cube([7.178377956151968,1.498098615556976,0.3612455166876477],center=true);

//gt label: ***
translate([-1.2785014975816014, -2.1098932065069675,9.173748791217804])
rotate([-114.59611011215691, 70.25127070173833, -22.933204052317848])
cube([4.858209043741231,2.8776821494102527,0.6448019109666414],center=true);
//gt label: ***
translate([-5.3131526336073875, -2.1989681199193005,0.017225995106855407])
rotate([90.06938876635326, 0.09602302655894807, -2.462319844903011])
cube([12.416756451129913,3.3480105921626113,3.316315393894915],center=true);
//gt label: ***
translate([8.878822177648544, -2.4167807400226597,0.02409586915746332])
rotate([179.79246555461484, -0.21620657500465373, -0.33374323508761633])
cube([13.283169046044353,3.4864939376711903,3.396264463663107],center=true);
```

```

//gt label: ***
translate([-0.07353749999310824,-3.1678919680416584,-4.189077354967594])
rotate([173.28404519156922,-77.98195523414104,-84.36781291750843])
cube([4.959690719842912,2.5697099231183533,0.9189965296536695],center=true);
//gt label: ***
translate([-1.278454065322876,-2.111927978694439,-9.177337661385536])
rotate([114.55364480684531,-70.30537153883601,-22.959150685791794])
cube([4.869928397238255,2.8752767294645345,0.6428824923932591],center=true);
//gt label: ***
translate([17.356667816638947,-2.814698461443186,0.03309953695861624])
rotate([72.53444119050451,89.73536869578345,-107.8894826657378])
cube([1.7013720702379973,1.6735716443509072,1.1193613521755008],center=true);
//gt label: ***
translate([-4.391236305236816,-1.2839819211512804,-15.079670250415802])
rotate([107.8511410121114,-65.04627673784022,-17.647871779339702])
cube([7.169134914875031,1.4960507303476438,0.360361002385624],center=true);
//gt label: ***
translate([-15.925291329622269,-1.5076432563364506,-3.3586171828210354])
rotate([110.77806988286113,-68.15934253758837,-20.309029904131258])
cube([5.273761115968228,1.4222018793225337,0.1354826532769974],center=true);
//gt label: ***
translate([3.775234073400497,-3.440604917705059,4.806764200329781])
rotate([26.729296085762712,-83.92278461743443,-122.60319635134954])
cube([5.179474800825126,4.009479768574247,1.7138132546097058],center=true);
//gt label: ***
translate([-13.754878044128418,-1.4589551184326408,0.03167223767377428])
rotate([-130.5612156118152,1.1388244509399705,-6.958652550439094])
cube([2.460635807365352,2.3930746503175624,2.3262117616832976],center=true);

```

No Example Answer: 7

```

//gt label: engine
translate([-16.616878658533096,3.770411349833012,0.05463805631734431])
rotate([0.06876515030771553,-0.08831176407319571,97.5747663466869])
cube([2.4647250212729257,1.5671994257718742,0.14074128237552955],center=true);
//gt label: engine
translate([-15.576755404472351,0.2548976545222104,0.01998864725464954])
rotate([0.5050914169017917,0.3444020031520882,67.53598836906558])
cube([5.254709944128993,1.9854571856558405,0.38667230634018807],center=true);
//gt label: tail
translate([-0.07860784709919244,-3.1628256291151047,4.195363819599152])
rotate([-173.73234439557632,77.8640133450877,-84.83953194451486])
cube([4.951052926480771,2.581791114062071,0.9215742629021417],center=true);
//gt label: tail
translate([3.7751861289143567,-3.4400390088558197,-4.794585891067983])
rotate([-153.61629884770636,-84.13249479045038,57.786741596795316])
cube([5.168773345649248,3.9960995689034524,1.7041274439543503],center=true);
//gt label: engine
translate([-16.08968436717987,-1.521627577021718,3.321653418242932])
rotate([-115.59567814619595,73.28218546640423,-26.52712823939206])
cube([5.262804366648199,1.4352577365934929,0.1354673760943259],center=true);
//gt label: wing
translate([-4.394926801323891,-1.2792529352009296,15.070446878671646])
rotate([-108.04407198002691,65.01144909189343,-17.875282409222383])
cube([7.178377956151968,1.498098615556976,0.3612455166876477],center=true);
//gt label: body

```

```

translate([-1.2785014975816014,-2.1098932065069675,9.173748791217804])
rotate([-114.59611011215691, 70.25127070173833, -22.933204052317848])
cube([4.858209043741231,2.8776821494102527,0.6448019109666414],center=true);
//gt label: body
translate([-5.3131526336073875,-2.1989681199193005,0.017225995106855407])
rotate([90.06938876635326, 0.09602302655894807, -2.462319844903011])
cube([12.416756451129913,3.3480105921626113,3.316315393894915],center=true);
//gt label: body
translate([8.878822177648544,-2.4167807400226597,0.02409586915746332])
rotate([179.79246555461484, -0.21620657500465373, -0.33374323508761633])
cube([13.283169046044353,3.4864939376711903,3.396264463663107],center=true);
//gt label: tail
translate([-0.07353749999310824,-3.1678919680416584,-4.189077354967594])
rotate([173.28404519156922, -77.98195523414104, -84.36781291750843])
cube([4.959690719842912,2.5697099231183533,0.9189965296536695],center=true);
//gt label: body
translate([-1.278454065322876,-2.111927978694439,-9.177337661385536])
rotate([114.55364480684531, -70.30537153883601, -22.959150685791794])
cube([4.869928397238255,2.8752767294645345,0.6428824923932591],center=true);
//gt label: engine
translate([17.356667816638947,-2.814698461443186,0.03309953695861624])
rotate([72.53444119050451, 89.73536869578345, -107.8894826657378])
cube([1.7013720702379973,1.6735716443509072,1.1193613521755008],center=true);
//gt label: wing
translate([-4.391236305236816,-1.2839819211512804,-15.079670250415802])
rotate([107.8511410121114, -65.04627673784022, -17.647871779339702])
cube([7.169134914875031,1.4960507303476438,0.360361002385624],center=true);
//gt label: engine
translate([-15.925291329622269,-1.5076432563364506,-3.3586171828210354])
rotate([110.77806988286113, -68.15934253758837, -20.309029904131258])
cube([5.273761115968228,1.4222018793225337,0.1354826532769974],center=true);
//gt label: tail
translate([3.775234073400497,-3.440604917705059,4.806764200329781])
rotate([26.729296085762712, -83.92278461743443, -122.60319635134954])
cube([5.179474800825126,4.009479768574247,1.7138132546097058],center=true);
//gt label: body
translate([-13.754878044128418,-1.4589551184326408,0.03167223767377428])
rotate([-130.5612156118152, 1.1388244509399705, -6.958652550439094])
cube([2.460635807365352,2.3930746503175624,2.3262117616832976],center=true);

```

No Example Question: 8

The following code describes a model airplane.

The airplane is consist of four parts , namely wing , body , tail , and engine .

Please annotate the following code to classify every code block . Block is defined with the 'code' sentence .

Here are an annotation example , please comment the given code following the structure of example .

Notice 1 , all annotation should start with '//gt label:', and you should replace the placeholder *** with your prediction

Notice 2 , you should only predict parts from wing , body , tail , and engine .

Task :

```

//gt label: ***
translate([-3.2276695221662526,-1.5527412947267292,14.28232640028])
rotate([-105.93359310550335, 63.28230851015245, -11.98841689226413])
cube([8.033440411090854,1.4101956784725238,0.2838211390189947],center=true);

//gt label: ***
translate([4.39149159938097,-3.0657284148037434,-4.154196307063103])
rotate([175.11500242405285, -81.1880658416691, 91.50513121070134])
cube([4.7588029131293315,3.6628702282905587,1.38086758553982],center=true);
//gt label: ***
translate([0.1395721617154778,-2.352468129247427,9.791966304183006])
rotate([139.33973604036166, -80.24403496634767, -49.73937798800217])
cube([5.137044750154021,2.92815847322345,0.5638726428151167],center=true);
//gt label: ***
translate([-18.29918920993805,3.8204633444547653,-0.022211763862287633])
rotate([-0.03225921756317605, 0.06588269045209724, 94.89455426434833])
cube([1.9065870717168263,1.35996676050132,0.1350036438088867],center=true);
//gt label: ***
translate([-16.721850037574768,1.0338530782610178,-0.026017392665380612])
rotate([0.49425234860228584, 0.14776270423852833, 71.35075479544959])
cube([4.3274287506938025,2.0662538893520894,0.38675008807331335],center=true);
//gt label: ***
translate([-4.930363856256008,-1.9074390083551407,-0.016253249632427386])
rotate([-179.9438339975719, -0.03410166617695409, -2.913290948596023])
cube([13.805099278688434,3.2583341188728885,3.1610092706978397],center=true);
//gt label: ***
translate([18.40419828891754,-2.1205524541437626,0.019635658536572023])
rotate([110.84692527689855, -89.96841412993534, -110.71131177578891])
cube([1.4589620847255034,1.4235505741089898,0.9601690620184421],center=true);
//gt label: ***
translate([4.3768709897994995,-3.060211520642042,4.160130359232426])
rotate([-5.229159361927696, -81.16684911915515, -88.20017514034282])
cube([4.763805940747264,3.654159493744377,1.3818683754652792],center=true);
//gt label: ***
translate([-3.2160296663641934,-1.5422366373240946,-14.229494035243988])
rotate([106.24634760227764, -63.21570890706951, -11.959269467950147])
cube([8.041014820337296,1.4166125562042031,0.28260418912396074],center=true);
//gt label: ***
translate([0.48188690561801206,-2.8740322217345238,4.474218785762787])
rotate([176.95603396313686, -81.0974516047518, 91.15791240974234])
cube([4.590496048331262,2.5631251372396955,0.7960271183401371],center=true);
//gt label: ***
translate([-14.301597625017164,-0.6934788310900333,-0.03058212809264662])
rotate([-128.50664852923367, 0.6251240203599325, -9.504609084128793])
cube([3.204482421278968,2.29870596900584,2.084826435893789],center=true);
//gt label: ***
translate([-17.90530353784561,-0.4233527835458517,2.74598540738225])
rotate([-113.68592610462156, 72.64425720741707, -23.812125606164575])
cube([4.84480548650027,1.3723911438137533,0.11228706222028623],center=true);
//gt label: ***
translate([-17.744829654693604,-0.430249976925552,-2.812629472464323])
rotate([109.54628278179611, -67.44821910385404, -18.676597301557255])
cube([4.80292577296496,1.3747275155037788,0.1127774303313393],center=true);
//gt label: ***
translate([10.0747437030077,-1.9083327427506447,-0.0006982492050154837])
rotate([-0.05892903135943894, -0.1617540173190407, 0.31280948186522095])
cube([13.750086873769764,3.3232675492763555,3.0810356140136745],center=true);
//gt label: ***

```

```

translate([0.4880200093612075,-2.885601185262203,-4.470735639333725])
rotate([-3.2670617126984935,-80.98235340254361,-88.4849278389839])
cube([4.582867138087751,2.5652199424803266,0.7969965087249888],center=true);
//gt label: ***
translate([0.14538773568347096,-2.3451469652354717,-9.795063436031342])
rotate([-138.12449044434152,80.1568701146726,-48.521086282423894])
cube([5.146000124514106,2.927572280168537,0.5640799924731289],center=true);

```

No Example Answer: 8

```

//gt label: wing
translate([-3.2276695221662526,-1.5527412947267292,14.28232640028])
rotate([-105.93359310550335,63.28230851015245,-11.98841689226413])
cube([8.033440411090854,1.4101956784725238,0.2838211390189947],center=true);

//gt label: body
translate([4.39149159938097,-3.0657284148037434,-4.154196307063103])
rotate([175.11500242405285,-81.1880658416691,91.50513121070134])
cube([4.7588029131293315,3.6628702282905587,1.38086758553982],center=true);

//gt label: tail
translate([0.1395721617154778,-2.352468129247427,9.791966304183006])
rotate([139.33973604036166,-80.24403496634767,-49.73937798800217])
cube([5.137044750154021,2.92815847322345,0.5638726428151167],center=true);

//gt label: engine
translate([-18.29918920993805,3.8204633444547653,-0.022211763862287633])
rotate([-0.03225921756317605,0.06588269045209724,94.89455426434833])
cube([1.9065870717168263,1.35996676050132,0.1350036438088867],center=true);

//gt label: engine
translate([-16.721850037574768,1.0338530782610178,-0.026017392665380612])
rotate([0.49425234860228584,0.14776270423852833,71.35075479544959])
cube([4.3274287506938025,2.0662538893520894,0.38675008807331335],center=true);

//gt label: body
translate([-4.930363856256008,-1.9074390083551407,-0.016253249632427386])
rotate([-179.9438339975719,-0.03410166617695409,-2.913290948596023])
cube([13.805099278688434,3.2583341188728885,3.1610092706978397],center=true);

//gt label: engine
translate([18.40419828891754,-2.1205524541437626,0.019635658536572023])
rotate([110.84692527689855,-89.96841412993534,-110.71131177578891])
cube([1.4589620847255034,1.4235505741089898,0.9601690620184421],center=true);

//gt label: body
translate([4.3768709897994995,-3.060211520642042,4.160130359232426])
rotate([-5.229159361927696,-81.16684911915515,-88.20017514034282])
cube([4.763805940747264,3.654159493744377,1.3818683754652792],center=true);

//gt label: wing
translate([-3.2160296663641934,-1.5422366373240946,-14.229494035243988])
rotate([106.24634760227764,-63.21570890706951,-11.959269467950147])
cube([8.041014820337296,1.4166125562042031,0.28260418912396074],center=true);

//gt label: tail
translate([0.48188690561801206,-2.8740322217345238,4.474218785762787])

```



```

rotate([176.95603396313686, -81.0974516047518, 91.15791240974234])
cube([4.590496048331262,2.5631251372396955,0.7960271183401371],center=true);

//gt label: engine
translate([-14.301597625017164,-0.6934788310900333,-0.03058212809264662])
rotate([-128.50664852923367, 0.6251240203599325, -9.504609084128793])
cube([3.204482421278968,2.29870596900584,2.084826435893789],center=true);

//gt label: engine
translate([-17.90530353784561,-0.4233527835458517,2.74598540738225])
rotate([-113.68592610462156, 72.64425720741707, -23.812125606164575])
cube([4.84480548650027,1.3723911438137533,0.11228706222028623],center=true);

//gt label: engine
translate([-17.744829654693604,-0.430249976925552,-2.812629472464323])
rotate([109.54628278179611, -67.44821910385404, -18.676597301557255])
cube([4.80292577296496,1.3747275155037788,0.1127774303313393],center=true);

//gt label: body
translate([10.0747437030077,-1.9083327427506447,-0.0006982492050154837])
rotate([-0.05892903135943894, -0.1617540173190407, 0.31280948186522095])
cube([13.750086873769764,3.3232675492763555,3.0810356140136745],center=true);

//gt label: tail
translate([0.4880200093612075,-2.885601185262203,-4.470735639333725])
rotate([-3.2670617126984935, -80.98235340254361, -88.4849278389839])
cube([4.582867138087751,2.5652199424803266,0.7969965087249888],center=true);

//gt label: tail
translate([0.14538773568347096,-2.3451469652354717,-9.795063436031342])
rotate([-138.12449044434152, 80.1568701146726, -48.521086282423894])
cube([5.146000124514106,2.927572280168537,0.5640799924731289],center=true);

```

No Example Question: 9

The following code describes a model airplane.

The airplane is consist of four parts, namely wing, body, tail, and engine.

Please annotate the following code to classify every code block. Block is defined with the 'code' sentence.

Here are an annotation example, please comment the given code following the structure of example.

Notice 1, all annotation should start with '//gt label:', and you should replace the placeholder *** with your prediction

Notice 2, you should only predict parts from wing, body, tail, and engine.

Task:

```

//gt label: ***
translate([11.498518735170364,-2.830627914518118,-0.0202592762070708])
rotate([90.36767205214585, 0.4214890946225669, -2.104899036616709])
cube([10.211443677544596,6.481690071523192,5.458570308983333],center=true);
//gt label: ***
translate([1.5317558497190475,-3.245669398456812,6.315561607480049])
rotate([-98.99188665652265, -87.27987052351041, -170.13743604175312])

```

```

cube([4.055972397327425,3.1934785470366487,1.0127947945147766],center=true);
//gt label: ***
translate([17.7198526263237,-2.0364367216825485,-0.012089737938367737])
rotate([-58.44085635399219,-89.6686644536583,-120.91141326043417])
cube([1.8085639551281938,0.9368238877505299,0.4937154147774409],center=true);
//gt label: ***
translate([1.5379204042255878,-3.227167949080467,-6.3172900676727295])
rotate([97.1262167923495,87.25562385375517,-171.83780961415437])
cube([4.067838452756413,3.185176160186539,1.0079878475517063],center=true);
//gt label: ***
translate([-12.366350814700127,-1.2520739436149593,-0.11220551561564213])
rotate([-103.72396532612704,1.6194972180467142,-11.276210438047501])
cube([8.875710293650632,6.459756493568821,6.458946354687616],center=true);
//gt label: ***
translate([-16.244198381900787,3.9770762622356415,0.020410927536431714])
rotate([0.06403017678452493,-0.03616582926434156,96.26688212727105])
cube([3.3333526924252554,3.012598548084502,0.8539620880037552],center=true);
//gt label: ***
translate([-15.94958320260048,2.9519770480692387,-4.418304860591888])
rotate([30.725227974659525,79.88779494462318,121.69880396065606])
cube([2.6238515414297883,1.9309438951313895,0.2226733253337557],center=true);
//gt label: ***
translate([-0.45887780375778675,-2.1787054277956486,-9.841369614005089])
rotate([-88.88397617834991,3.8253918632044974,-0.9102185858638672])
cube([4.128761962056161,3.3460956811904916,0.3965248214080952],center=true);
//gt label: ***
translate([-1.2449732422828674,-1.9946955144405367,-5.819782018661499])
rotate([-164.40473879540548,89.09340782190257,107.06671287748098])
cube([3.559908829629422,1.6676128003746284,0.3743273438885852],center=true);
//gt label: ***
translate([-0.44552055187523365,-2.1844007819890976,9.866967871785164])
rotate([89.09857333755045,-3.7221445943485123,-0.5785436378204852])
cube([4.114125370979309,3.3347850851714647,0.3903822670690801],center=true);
//gt label: ***
translate([-0.6478673359379171,-2.020597625523805,-0.02491513849236071])
rotate([89.93857628703189,0.0425459403879334,-0.3141172142512432])
cube([13.400581404566768,6.837305389344693,6.3146010786294955],center=true);
//gt label: ***
translate([-15.861476808786392,2.865815069526434,4.376514069736004])
rotate([-133.09915450770217,78.93165406355163,-41.339716660841084])
cube([2.700395323336145,1.9595001637935963,0.22765314904973308],center=true);
//gt label: ***
translate([-1.25363377854228,-1.992645375430584,14.331333041191101])
rotate([-65.03958423942369,-83.22311657857922,154.3610847499535])
cube([4.595642089843752,3.310050237923865,0.38159024203196207],center=true);

//gt label: ***
translate([-1.266733380034566,-1.9144604168832302,-14.349747002124786])
rotate([66.30480939509344,82.91899031387888,155.6666353114684])
cube([4.616140201687818,3.2956336997449456,0.3755966690369005],center=true);
//gt label: ***
translate([-18.74084234237671,-0.7481788797304034,-0.018264323298353674])
rotate([-90.3367547922255,0.43941194456662264,-99.63211956933394])
cube([3.973097689449797,3.7492879107594534,2.205704525113123],center=true);
//gt label: ***
translate([-1.2532225623726845,-2.019860427826643,5.814606472849846])
rotate([-27.956041599082944,-88.98093705785995,119.3737218433035])
cube([3.563234210014345,1.6704856790602218,0.3831672878004618],center=true);

```

No Example Answer: 9

```
//gt label: body
translate([11.498518735170364,-2.830627914518118,-0.0202592762070708])
rotate([90.36767205214585, 0.4214890946225669, -2.104899036616709])
cube([10.211443677544596,6.481690071523192,5.458570308983333],center=true);

//gt label: engine
translate([1.5317558497190475,-3.245669398456812,6.315561607480049])
rotate([-98.99188665652265, -87.27987052351041, -170.13743604175312])
cube([4.055972397327425,3.1934785470366487,1.0127947945147766],center=true);

//gt label: tail
translate([17.7198526263237,-2.0364367216825485,-0.012089737938367737])
rotate([-58.44085635399219, -89.6686644536583, -120.91141326043417])
cube([1.8085639551281938,0.9368238877505299,0.4937154147774409],center=true);

//gt label: engine
translate([1.5379204042255878,-3.227167949080467,-6.3172900676727295])
rotate([97.1262167923495, 87.25562385375517, -171.83780961415437])
cube([4.067838452756413,3.185176160186539,1.0079878475517063],center=true);

//gt label: body
translate([-12.366350814700127,-1.2520739436149593,-0.11220551561564213])
rotate([-103.72396532612704, 1.6194972180467142, -11.276210438047501])
cube([8.875710293650632,6.459756493568821,6.458946354687616],center=true);

//gt label: wing
translate([-16.244198381900787,3.9770762622356415,0.020410927536431714])
rotate([0.06403017678452493, -0.03616582926434156, 96.26688212727105])
cube([3.3333526924252554,3.012598548084502,0.8539620880037552],center=true);

//gt label: wing
translate([-15.94958320260048,2.9519770480692387,-4.418304860591888])
rotate([30.725227974659525, 79.88779494462318, 121.69880396065606])
cube([2.6238515414297883,1.9309438951313895,0.2226733253337557],center=true);

//gt label: engine
translate([-0.45887780375778675,-2.1787054277956486,-9.841369614005089])
rotate([-88.88397617834991, 3.8253918632044974, -0.9102185858638672])
cube([4.128761962056161,3.3460956811904916,0.3965248214080952],center=true);

//gt label: wing
translate([-1.2449732422828674,-1.9946955144405367,-5.819782018661499])
rotate([-164.40473879540548, 89.09340782190257, 107.06671287748098])
cube([3.559908829629422,1.6676128003746284,0.3743273438885852],center=true);

//gt label: engine
translate([-0.44552055187523365,-2.1844007819890976,9.866967871785164])
rotate([89.09857333755045, -3.7221445943485123, -0.5785436378204852])
cube([4.114125370979309,3.3347850851714647,0.3903822670690801],center=true);

//gt label: body
translate([-0.6478673359379171,-2.020597625523805,-0.02491513849236071])
rotate([89.93857628703189, 0.0425459403879334, -0.3141172142512432])
cube([13.400581404566768,6.837305389344693,6.3146010786294955],center=true);

//gt label: wing
```

```

translate([-15.861476808786392,2.865815069526434,4.376514069736004])
rotate([-133.09915450770217, 78.93165406355163, -41.339716660841084])
cube([2.700395323336145,1.9595001637935963,0.22765314904973308],center=true);

//gt label: engine
translate([-1.25363377854228,-1.992645375430584,14.331333041191101])
rotate([-65.03958423942369, -83.22311657857922, 154.3610847499535])
cube([4.595642089843752,3.310050237923865,0.38159024203196207],center=true);

//gt label: engine
translate([-1.266733380034566,-1.9144604168832302,-14.349747002124786])
rotate([66.30480939509344, 82.91899031387888, 155.6666353114684])
cube([4.616140201687818,3.2956336997449456,0.3755966690369005],center=true);

//gt label: tail
translate([-18.74084234237671,-0.7481788797304034,-0.018264323298353674])
rotate([-90.3367547922255, 0.43941194456662264, -99.63211956933394])
cube([3.973097689449797,3.7492879107594534,2.205704525113123],center=true);

//gt label: wing
translate([-1.2532225623726845,-2.019860427826643,5.814606472849846])
rotate([-27.956041599082944, -88.98093705785995, 119.3737218433035])
cube([3.563234210014345,1.6704856790602218,0.3831672878004618],center=true);

```

Airplane^{Cube}(partial) Question: 0

The following code describes a model airplane.

The airplane is consist of four parts, namely wing, body, tail, and engine.

Please annotate the following code to classify every code block. Block is defined with the 'code' sentence.

Here are an annotation example, please comment the given code following the structure of example.

Notice 1, all annotation should start with '//gt label:', and you should replace the placeholder *** with your prediction

Notice 2, you should only predict parts from wing, body, tail, and engine.

Task:

```

//gt label: ***
translate([-18.23992818593979,-1.3331068865954876,3.3869865909218793])
rotate([-115.31114244967323, 72.19267551449406, -26.788785586062886])
cube([5.484133325517179,1.4128672517836138,0.12016741209665482],center=true);
//gt label: ***
translate([3.5951648280024533,-4.504960626363754,-3.9638251438736916])
rotate([-177.33952817471692, -83.04299989332627, 83.71547640244957])
cube([4.381989985704424,3.589124232530597,1.4678625483065875],center=true);
//gt label: ***
translate([-18.138041645288467,-1.3327325507998466,-3.4679336845874786])
rotate([112.54633972019874, -68.63369964883897, -22.8044706787177])
cube([5.48646703362465,1.4016167912632265,0.1192448392976122],center=true);
//gt label: ***
translate([-3.0519824847579002,-2.776682786643505,14.160122871398926])
rotate([-110.44930620797955, 70.48855763975978, -20.91218484869099])

```

```

cube([6.701969578862192,1.3487752061337308,0.2984280721284608],center=true);

//gt label: ***
translate([3.59521072357893,-4.506650976836681,3.962673246860504])
rotate([3.198273128481802,-82.95772282547932,-96.84383542482172])
cube([4.37215685844422,3.598536513745792,1.4704217389226009],center=true);
//gt label: ***
translate([9.9213844537735,-3.030048292130232,0.015458189445780597])
rotate([179.99111833310496,-0.3136541546803373,-0.3479469329746344])
cube([14.514621943235401,3.5595400258898775,3.3572911284863993],center=true);
//gt label: ***
translate([-3.0432422459125523,-2.769499309360981,-14.141722023487093])
rotate([110.28041958843485,-70.41431045187099,-20.731363741013677])
cube([6.709006354212766,1.3475078530609612,0.29589290497824705],center=true);
//gt label: ***
translate([0.16497560660354793,-3.9487890154123306,3.8413323089480405])
rotate([167.5062758456813,83.53026105728806,-102.1632179658437])
cube([4.192828088998795,2.3708329163491735,0.8533036196604387],center=true);
//gt label: ***
translate([-0.7694108085706831,-3.401900604367256,-8.452712073922157])
rotate([110.30140899253772,-76.32257784064667,-19.43716380306151])
cube([4.622301273047927,2.590262126177552,0.5367324780672811],center=true);
//gt label: ***
translate([-18.25397551059723,4.169581979513168,0.019402902398724102])
rotate([179.95081089499456,-0.15121620496685415,-83.39861676374602])
cube([2.8596763312816647,1.5816534589976101,0.14219020726159254],center=true);
//gt label: ***
translate([-16.979714334011078,0.22976583102717996,-0.0050979305524378946])
rotate([0.21886454615984383,0.6345535921042724,73.02517312896761])
cube([5.4412898048758525,2.15925000607968,0.457190065644682],center=true);
//gt label: ***
translate([0.15211068210192036,-3.940819166600704,-3.8314110785722737])
rotate([-167.92164333392125,-83.47423338843586,-101.97831115012755])
cube([4.199914038181307,2.3692896775901326,0.8531630644574768],center=true);
//gt label: ***
translate([-0.7638943241909145,-3.4050163812935352,8.457721248269081])
rotate([-110.78278713957445,76.2917353364514,-19.769320414566955])
cube([4.614250287413598,2.5918871164321904,0.5365997087210455],center=true);
//gt label: ***
translate([-15.074674189090729,-1.7249471321702003,0.004567506257444525])
rotate([-130.32339074715486,0.9322074454637863,-10.272641000509907])
cube([2.6874679327011197,2.552479617297667,2.4472558125853663],center=true);
//gt label: ***
translate([18.815257102251053,-3.3718490414321423,0.0193661564844661])
rotate([90.08739449602585,-0.09800786469819125,-90.05765042322027])
cube([1.7534650862217243,1.6840452607721097,1.1653851903975494],center=true);
//gt label: ***
translate([-5.830232277512551,-2.8542086109519,0.006996251759119387])
rotate([179.99371823902078,0.02610469870305648,-2.494284544592666])
cube([13.805754929780964,3.4458296373486608,3.3688312023878204],center=true);

```

Airplane^{Cube}(partial) Answer: 0

Sure, here is an annotation for each code block in accordance with your explanation:

```
//gt label: wing
```

```

translate([-18.23992818593979,-1.3331068865954876,3.3869865909218793])
rotate([-115.31114244967323, 72.19267551449406, -26.788785586062886])
cube([5.484133325517179,1.4128672517836138,0.12016741209665482],center=true);

//gt label: body
translate([3.5951648280024533,-4.504960626363754,-3.9638251438736916])
rotate([-177.33952817471692, -83.04299989332627, 83.71547640244957])
cube([4.381989985704424,3.589124232530597,1.4678625483065875],center=true);

//gt label: wing
translate([-18.138041645288467,-1.3327325507998466,-3.4679336845874786])
rotate([112.54633972019874, -68.63369964883897, -22.8044706787177])
cube([5.48646703362465,1.4016167912632265,0.1192448392976122],center=true);

//gt label: tail
translate([-3.0519824847579002,-2.776682786643505,14.160122871398926])
rotate([-110.44930620797955, 70.48855763975978, -20.91218484869099])
cube([6.701969578862192,1.3487752061337308,0.2984280721284608],center=true);

//gt label: body
translate([3.59521072357893,-4.506650976836681,3.962673246860504])
rotate([3.198273128481802, -82.95772282547932, -96.84383542482172])
cube([4.37215685844422,3.598536513745792,1.4704217389226009],center=true);

//gt label: body
translate([9.9213844537735,-3.030048292130232,0.015458189445780597])
rotate([179.99111833310496, -0.3136541546803373, -0.3479469329746344])
cube([14.514621943235401,3.5595400258898775,3.3572911284863993],center=true);

//gt label: tail
translate([-3.0432422459125523,-2.769499309360981,-14.141722023487093])
rotate([110.28041958843485, -70.41431045187099, -20.731363741013677])
cube([6.709006354212766,1.3475078530609612,0.29589290497824705],center=true);

//gt label: engine
translate([0.16497560660354793,-3.9487890154123306,3.8413323089480405])
rotate([167.5062758456813, 83.53026105728806, -102.1632179658437])
cube([4.192828088998795,2.3708329163491735,0.8533036196604387],center=true);

//gt label: tail
translate([-0.7694108085706831,-3.401900604367256,-8.452712073922157])
rotate([110.30140899253772, -76.32257784064667, -19.43716380306151])
cube([4.622301273047927,2.590262126177552,0.5367324780672811],center=true);

//gt label: body
translate([-18.25397551059723,4.169581979513168,0.019402902398724102])
rotate([179.95081089499456, -0.15121620496685415, -83.39861676374602])
cube([2.8596763312816647,1.5816534589976101,0.14219020726159254],center=true);

//gt label: wing
translate([-16.979714334011078,0.22976583102717996,-0.0050979305524378946])
rotate([0.21886454615984383, 0.6345535921042724, 73.02517312896761])
cube([5.4412898048758525,2.15925000607968,0.457190065644682],center=true);

//gt label: engine
translate([0.15211068210192036,-3.940819166600704,-3.8314110785722737])
rotate([-167.92164333392125, -83.47423338843586, -101.97831115012755])
cube([4.199914038181307,2.3692896775901326,0.8531630644574768],center=true);

```

```

//gt label: tail
translate([-0.7638943241909145, -3.4050163812935352, 8.457721248269081])
rotate([-110.78278713957445, 76.2917353364514, -19.769320414566955])
cube([4.614250287413598, 2.5918871164321904, 0.5365997087210455], center=true);

//gt label: body
translate([-15.074674189090729, -1.7249471321702003, 0.004567506257444525])
rotate([-130.32339074715486, 0.9322074454637863, -10.272641000509907])
cube([2.6874679327011197, 2.552479617297667, 2.4472558125853663], center=true);

//gt label: engine
translate([18.815257102251053, -3.3718490414321423, 0.0193661564844661])
rotate([90.08739449602585, -0.09800786469819125, -90.05765042322027])
cube([1.7534650862217243, 1.6840452607721097, 1.1653851903975494], center=true);

//gt label: body
translate([-5.830232277512551, -2.8542086109519, 0.006996251759119387])
rotate([179.99371823902078, 0.02610469870305648, -2.494284544592666])
cube([13.805754929780964, 3.4458296373486608, 3.3688312023878204], center=true);

```

Airplane^{Cube}(partial) Question: 1

The following code describes a model airplane.

The airplane is consist of four parts, namely wing, body, tail, and engine.

Please annotate the following code to classify every code block. Block is defined with the 'code' sentence.

Here are an annotation example, please comment the given code following the structure of example.

Notice 1, all annotation should start with '//gt label:', and you should replace the placeholder *** with your prediction

Notice 2, you should only predict parts from wing, body, tail, and engine.

Task:

```

//gt label: ***
translate([-1.2060251086950302, -2.3856407962739468, 8.632851392030716])
rotate([-116.06612268142278, 74.25147638894713, -24.488883650841263])
cube([4.538758210837845, 2.9628637246787597, 0.5826405528932886], center=true);
//gt label: ***
translate([-17.7386337518692, -1.6821485850960014, -3.6005014181137085])
rotate([115.54155105838161, -68.46903206821945, -25.373668594153667])
cube([5.481317713856701, 1.6346948128193666, 0.12983383494430006], center=true);
//gt label: ***
translate([3.2827888801693916, -3.7463440373539925, 4.486278258264065])
rotate([5.763582958161343, -84.35247507826415, -99.1976935652948])
cube([4.696845114231117, 3.9415006339550103, 1.4838621765375144], center=true);
//gt label: ***
translate([3.2858493365347385, -3.7494206801056866, -4.478634186089039])
rotate([-174.4424970819488, -84.32345993974258, 80.97624640896319])
cube([4.700984731316581, 3.9289867132902314, 1.4795199222862805], center=true);
//gt label: ***
translate([-17.88649618625641, -1.6755205672234297, 3.5308007895946503])

```

```

rotate([-121.40486008933163, 72.67759078536278, -32.405874641961816])
cube([5.450109541416168,1.647915402427319,0.1307015737984354],center=true);
//gt label: ***
translate([10.233398154377937,-2.542352061718702,0.016752978699514757])
rotate([0.07293735511468132, -0.32311898947117834, 0.14980733420051667])
cube([14.565475881099708,3.5536899790167817,3.2618002593517312],center=true);
//gt label: ***
translate([-0.22363933501765132, -3.3783567883074284,4.0274179726839066])
rotate([-5.691028493805405, -80.30438112928186, 95.55512198454505])
cube([4.3613525480031985,2.4688906595110898,0.8301708148792393],center=true);
//gt label: ***
translate([-5.481415241956711, -2.4164217710494995,0.005415466730482876])
rotate([-179.91672024987184, 0.10720704194893887, -1.7747561875698454])
cube([13.972000181674963,3.3922076225281037,3.3860469609499253],center=true);
//gt label: ***
translate([-3.8126922398805623, -1.661948999390006, -13.838217854499819])
rotate([108.9185810407197, -68.89575497242774, -19.104765967933826])
cube([6.259281337261205,1.6732768062502206,0.32410754356534577],center=true);
//gt label: ***
translate([-0.21375198848545557, -3.389348573982716, -4.030495434999466])
rotate([5.535275690634281, 80.51945456963035, 95.47307284299437])
cube([4.377156607806683,2.46059462428093,0.8274273760616797],center=true);
//gt label: ***
translate([19.155228585004807, -2.840406745672226,0.014593831292586401])
rotate([45.898682719080014, 89.84470967418689, -134.61131681147813])
cube([1.651420677080801,1.6406363435090274,1.2112336419523233],center=true);
//gt label: ***
translate([-17.15000495314598,0.1767136692069471,-0.014859895018162206])
rotate([0.23945260788361308, 0.9662714921344305, 65.85160814176284])
cube([5.703376904129986,2.284846119582665,0.47554199583828477],center=true);
//gt label: ***
translate([-1.2090794183313844, -2.39425728097558, -8.642287850379944])
rotate([115.2356276748709, -74.36285237906799, -23.796308287756684])
cube([4.549195356667054,2.962181642651576,0.5826913658529642],center=true);
//gt label: ***
translate([-3.83928831666708, -1.6292880475521088,13.84933277964592])
rotate([-109.57229119755522, 68.75098238431028, -19.78820746926253])
cube([6.254601627588276,1.677151499316103,0.32551002223044884],center=true);

//gt label: ***
translate([-18.57037141919136,3.960353471338749,0.010860398542718032])
rotate([0.0583913655830972, 0.29460563774497545, 97.54395652116982])
cube([2.8469880484044787,1.7371205240488408,0.16724910237826446],center=true);
//gt label: ***
translate([-14.985372871160505, -1.6932213027030232,0.017578401166247384])
rotate([-129.11672595006985, 1.4365185575016923, -5.91875990135237])
cube([2.767746057361449,2.6511936262250693,2.5154695473611732],center=true);

```

Airplane^{Cube}(partial) Answer: 1

```

//gt label: wing
translate([-1.2060251086950302, -2.3856407962739468,8.632851392030716])
rotate([-116.06612268142278, 74.25147638894713, -24.488883650841263])
cube([4.538758210837845,2.9628637246787597,0.5826405528932886],center=true);
//gt label: tail
translate([-17.7386337518692, -1.6821485850960014, -3.6005014181137085])

```



```

rotate([115.54155105838161, -68.46903206821945, -25.373668594153667])
cube([5.481317713856701,1.6346948128193666,0.12983383494430006],center=true);
//gt label: engine
translate([3.2827888801693916,-3.7463440373539925,4.486278258264065])
rotate([5.763582958161343, -84.35247507826415, -99.1976935652948])
cube([4.696845114231117,3.9415006339550103,1.4838621765375144],center=true);
//gt label: engine
translate([3.2858493365347385,-3.7494206801056866,-4.478634186089039])
rotate([-174.4424970819488, -84.32345993974258, 80.97624640896319])
cube([4.700984731316581,3.9289867132902314,1.4795199222862805],center=true);
//gt label: tail
translate([-17.88649618625641,-1.6755205672234297,3.5308007895946503])
rotate([-121.40486008933163, 72.67759078536278, -32.405874641961816])
cube([5.450109541416168,1.647915402427319,0.1307015737984354],center=true);
//gt label: body
translate([10.233398154377937,-2.542352061718702,0.016752978699514757])
rotate([0.07293735511468132, -0.32311898947117834, 0.14980733420051667])
cube([14.565475881099708,3.5536899790167817,3.2618002593517312],center=true);
//gt label: wing
translate([-0.22363933501765132,-3.3783567883074284,4.0274179726839066])
rotate([-5.691028493805405, -80.30438112928186, 95.55512198454505])
cube([4.3613525480031985,2.4688906595110898,0.8301708148792393],center=true);
//gt label: body
translate([-5.481415241956711,-2.4164217710494995,0.005415466730482876])
rotate([-179.91672024987184, 0.10720704194893887, -1.7747561875698454])
cube([13.972000181674963,3.3922076225281037,3.3860469609499253],center=true);
//gt label: tail
translate([-3.8126922398805623,-1.661948999390006,-13.838217854499819])
rotate([108.9185810407197, -68.89575497242774, -19.104765967933826])
cube([6.259281337261205,1.6732768062502206,0.32410754356534577],center=true);
//gt label: wing
translate([-0.21375198848545557,-3.389348573982716,-4.030495434999466])
rotate([5.535275690634281, 80.51945456963035, 95.47307284299437])
cube([4.377156607806683,2.46059462428093,0.8274273760616797],center=true);
//gt label: engine
translate([19.155228585004807,-2.840406745672226,0.014593831292586401])
rotate([45.898682719080014, 89.84470967418689, -134.61131681147813])
cube([1.651420677080801,1.6406363435090274,1.2112336419523233],center=true);
//gt label: body
translate([-17.15000495314598,0.1767136692069471,-0.014859895018162206])
rotate([0.23945260788361308, 0.9662714921344305, 65.85160814176284])
cube([5.703376904129986,2.284846119582665,0.47554199583828477],center=true);
//gt label: wing
translate([-1.2090794183313844,-2.39425728097558,-8.642287850379944])
rotate([115.2356276748709, -74.36285237906799, -23.796308287756684])
cube([4.549195356667054,2.962181642651576,0.5826913658529642],center=true);
//gt label: tail
translate([-3.83928831666708,-1.6292880475521088,13.84933277964592])
rotate([-109.57229119755522, 68.75098238431028, -19.78820746926253])
cube([6.254601627588276,1.677151499316103,0.32551002223044884],center=true);
//gt label: tail
translate([-18.57037141919136,3.960353471338749,0.010860398542718032])
rotate([0.0583913655830972, 0.29460563774497545, 97.54395652116982])
cube([2.8469880484044787,1.7371205240488408,0.16724910237826446],center=true);
//gt label: body
translate([-14.985372871160505,-1.6932213027030232,0.017578401166247384])
rotate([-129.11672595006985, 1.4365185575016923, -5.91875990135237])
cube([2.767746057361449,2.6511936262250693,2.5154695473611732],center=true);

```

Airplane^{Cube}(partial) Question: 2

The following code describes a model airplane.

The airplane is consist of four parts , namely wing , body , tail , and engine .

Please annotate the following code to classify every code block . Block is defined with the 'code' sentence .

Here are an annotation example , please comment the given code following the structure of example .

Notice 1 , all annotation should start with '//gt label:' , and you should replace the placeholder *** with your prediction

Notice 2 , you should only predict parts from wing , body , tail , and engine .

Task :

```
//gt label: ***
translate([-14.217626750469208,-1.4404156617820263,-3.50570697337389])
rotate([91.76885955381205,-67.69119752320073,-0.4460848230136764])
cube([5.253285951912408,1.8261546641588369,0.12881031492725242],center=true);
//gt label: ***
translate([2.3020989634096627,-4.345961958169937,-4.272172935307026])
rotate([160.73347850287567,83.72395122937961,-110.0326433398113])
cube([5.181406103074554,4.2309546098113096,1.4322108030319223],center=true);
//gt label: ***
translate([-3.303586132824421,-2.1400148421525955,-0.012198599069961402])
rotate([-179.8487821329813,0.04566453422849723,-1.546757039779757])
cube([13.261167854070663,3.426635861396792,3.194976914674046],center=true);
//gt label: ***
translate([-4.709801189601421,-4.1979532316327095,-14.662889242172241])
rotate([92.95449334560206,-71.17966014336376,-0.06589732549748115])
cube([6.095076389610771,2.484403364360339,0.34865967929363895],center=true);
//gt label: ***
translate([-1.0291765443980696,-4.379029311239719,9.931433126330376])
rotate([-89.70324549643868,-84.1829831107987,-2.2214055295749935])
cube([4.76372726261617,4.4013271853327876,0.6496309861540865],center=true);
//gt label: ***
translate([-1.0262832790613174,-4.376330077648163,-9.927223846316338])
rotate([90.23711066443157,-83.74390568369569,177.74313012338342])
cube([4.7601740434765905,4.400968626141557,0.64976539462805],center=true);
//gt label: ***
translate([-1.5893350262194874,-4.188789688050747,4.360119923949242])
rotate([-10.839169757964955,-86.65302178340283,99.10954413665007])
cube([5.5495791882276535,2.7453395910561103,0.743680293671789],center=true);
//gt label: ***
translate([-17.14067667722702,4.005718380212784,-0.01963946182513608])
rotate([-0.17231084772373145,-0.15952507820283718,99.50237198315423])
cube([3.2515583746135364,2.16392930597069,0.1584215543698521],center=true);
//gt label: ***
translate([10.240879952907562,-2.4842165037989616,-0.01277930488868148])
rotate([179.9366177146892,-0.11114175736444476,-0.8646565240588133])
cube([11.867466717958454,3.4932164102792758,3.2916647568345097],center=true);
//gt label: ***
translate([2.294098995625973,-4.355607815086842,4.279787912964821])
rotate([-162.71192063282987,-83.86572783321868,-108.06174017839452])
cube([5.190586857497699,4.237833209335811,1.4364818576723428],center=true);
//gt label: ***
```

```

translate([17.794046103954315,-2.932734712958336,-0.0025601062225177884])
rotate([-153.01368703836872, 89.49457059464926, 26.33887855148037])
cube([1.3221963401883874,1.2848753482103545,0.9487679041922337],center=true);
//gt label: ***
translate([-4.689892344176769,-4.205830469727516,14.676300585269928])
rotate([-92.41374370312249, 71.56159133791489, 0.1150922306163651])
cube([6.07949033379555,2.4659978039562747,0.34893881762401274],center=true);

//gt label: ***
translate([-1.5760746877640484,-4.198968671262264,-4.350411780178548])
rotate([13.201863020653578, 86.5395668647182, 101.40184615964846])
cube([5.524439476430418,2.7468611113727097,0.7459424436092397],center=true);
//gt label: ***
translate([-14.379241466522217,-1.4327777363359928,3.432165253907442])
rotate([-89.8906439961192, 72.06486113150841, 0.33916275096654835])
cube([5.22511467337609,1.8507272377610346,0.12722646933981363],center=true);
//gt label: ***
translate([-12.712700963020325,-1.1528310086578129,-0.037956243613734876])
rotate([143.6986956534412, 0.46437753244110125, -9.39914650360689])
cube([3.4124705195427207,2.45395533740528,2.405040692538092],center=true);
//gt label: ***
translate([-15.441789627075197,0.6475475011393432,-0.009473927784711093])
rotate([0.468714130794327, -0.26210844401817973, 66.58997092676087])
cube([5.233722962439064,2.230983357876548,0.4179071402177218],center=true);

```

Airplane^{Cube}(partial) Answer: 2

```

//gt label: wing
translate([-14.217626750469208,-1.4404156617820263,-3.50570697337389])
rotate([91.76885955381205, -67.69119752320073, -0.4460848230136764])
cube([5.253285951912408,1.8261546641588369,0.12881031492725242],center=true);

//gt label: engine
translate([2.3020989634096627,-4.345961958169937,-4.272172935307026])
rotate([160.73347850287567, 83.72395122937961, -110.0326433398113])
cube([5.181406103074554,4.2309546098113096,1.4322108030319223],center=true);

//gt label: body
translate([-3.303586132824421,-2.1400148421525955,-0.012198599069961402])
rotate([-179.8487821329813, 0.04566453422849723, -1.546757039779757])
cube([13.261167854070663,3.426635861396792,3.194976914674046],center=true);

//gt label: wing
translate([-4.709801189601421,-4.1979532316327095,-14.662889242172241])
rotate([92.95449334560206, -71.17966014336376, -0.06589732549748115])
cube([6.095076389610771,2.484403364360339,0.34865967929363895],center=true);

//gt label: tail
translate([-1.0291765443980696,-4.379029311239719,9.931433126330376])
rotate([-89.70324549643868, -84.1829831107987, -2.2214055295749935])
cube([4.76372726261617,4.4013271853327876,0.6496309861540865],center=true);

//gt label: tail
translate([-1.0262832790613174,-4.376330077648163,-9.927223846316338])
rotate([90.23711066443157, -83.74390568369569, 177.74313012338342])
cube([4.7601740434765905,4.400968626141557,0.64976539462805],center=true);

```

```

//gt label: engine
translate([-1.5893350262194874, -4.188789688050747, 4.360119923949242])
rotate([-10.839169757964955, -86.65302178340283, 99.10954413665007])
cube([5.5495791882276535, 2.7453395910561103, 0.743680293671789], center=true);

//gt label: wing
translate([-17.14067667722702, 4.005718380212784, -0.01963946182513608])
rotate([-0.17231084772373145, -0.15952507820283718, 99.50237198315423])
cube([3.2515583746135364, 2.16392930597069, 0.1584215543698521], center=true);

//gt label: body
translate([10.240879952907562, -2.4842165037989616, -0.01277930488868148])
rotate([179.9366177146892, -0.11114175736444476, -0.8646565240588133])
cube([11.867466717958454, 3.4932164102792758, 3.2916647568345097], center=true);

//gt label: engine
translate([2.294098995625973, -4.355607815086842, 4.279787912964821])
rotate([-162.71192063282987, -83.86572783321868, -108.06174017839452])
cube([5.190586857497699, 4.237833209335811, 1.4364818576723428], center=true);

//gt label: wing
translate([17.794046103954315, -2.932734712958336, -0.0025601062225177884])
rotate([-153.01368703836872, 89.49457059464926, 26.33887855148037])
cube([1.3221963401883874, 1.2848753482103545, 0.9487679041922337], center=true);

//gt label: wing
translate([-4.689892344176769, -4.205830469727516, 14.676300585269928])
rotate([-92.41374370312249, 71.56159133791489, 0.1150922306163651])
cube([6.07949033379555, 2.4659978039562747, 0.34893881762401274], center=true);

//gt label: engine
translate([-1.5760746877640484, -4.198968671262264, -4.350411780178548])
rotate([13.201863020653578, 86.5395668647182, 101.40184615964846])
cube([5.524439476430418, 2.7468611113727097, 0.7459424436092397], center=true);

//gt label: wing
translate([-14.379241466522217, -1.4327777363359928, 3.432165253907442])
rotate([-89.8906439961192, 72.06486113150841, 0.33916275096654835])
cube([5.22511467337609, 1.8507272377610346, 0.12722646933981363], center=true);

//gt label: body
translate([-12.712700963020325, -1.1528310086578129, -0.037956243613734876])
rotate([143.6986956534412, 0.46437753244110125, -9.39914650360689])
cube([3.4124705195427207, 2.45395533740528, 2.405040692538092], center=true);

//gt label: body
translate([-15.441789627075197, 0.6475475011393432, -0.009473927784711093])
rotate([0.468714130794327, -0.26210844401817973, 66.58997092676087])
cube([5.233722962439064, 2.230983357876548, 0.4179071402177218], center=true);

```

Airplane^{Cube} (partial) Question: 3

The following code describes a model airplane.
The airplane is consist of four parts, namely wing, body, tail, and engine.

Please annotate the following code to classify every code block. Block is defined with the 'code' sentence.

Here are an annotation example, please comment the given code following the structure of example.

Notice 1, all annotation should start with '//gt label:', and you should replace the placeholder *** with your prediction

Notice 2, you should only predict parts from wing, body, tail, and engine.

Task:

```
//gt label: ***
translate([-4.4803401082754135,-2.3446794040501118,-0.010926213362836307])
rotate([179.99832540193842, 0.02092757387061096, -4.407551599006336])
cube([14.15883451700211,3.96681245416403,3.30937020480633],center=true);
//gt label: ***
translate([19.35147315263748,-2.3588359355926514,-0.017098860262194666])
rotate([103.22551892903451, -89.68850952659633, -103.02606851346802])
cube([1.4854588918388032,1.4666296169162056,0.9966680314392127],center=true);
//gt label: ***
translate([-4.047834537923336,-2.5251344591379166,13.977147042751312])
rotate([-104.84296394673429, 63.76993566668482, -10.467470552035177])
cube([6.699303947389131,2.119463663548242,0.30590198235588006],center=true);

//gt label: ***
translate([4.485025964677334,-3.4974084794521336,4.64983657002449])
rotate([-1.5794320693704758, -82.50112081866051, -90.85857518356286])
cube([5.2757825702428836,3.977863043546678,1.3635911792516748],center=true);
//gt label: ***
translate([-4.05317522585392,-2.556444462388754,-13.916282951831818])
rotate([104.83362697532066, -63.78530813281644, -9.99065022559133])
cube([6.71284642070532,2.1321101486682927,0.3067173971794662],center=true);
//gt label: ***
translate([4.486228674650192,-3.5031433776021004,-4.64188925921917])
rotate([179.0626689301875, -82.27737919139358, 88.5497614067408])
cube([5.281359702348712,3.9733247086405776,1.3640574086457538],center=true);
//gt label: ***
translate([10.91297559440136,-2.18883503228426,-0.016058923356467743])
rotate([0.06424524681481897, -0.36448483783202995, 1.5600131310411343])
cube([13.592597842216492,4.056088775396351,3.3325081318616876],center=true);
//gt label: ***
translate([-0.3295525722205638,-3.1723587960004807,-9.958050921559334])
rotate([-33.57586497967647, -82.35632091017473, 124.19392975594913])
cube([4.933460578322414,3.70298828929663,0.6161986198276308],center=true);
//gt label: ***
translate([-16.954638957977295,0.9377738647162914,-0.0187698789522983])
rotate([0.17586049775788598, 0.2639966728596206, 70.2598060147382])
cube([5.249424576759342,2.284606192260994,0.38507016142830297],center=true);
//gt label: ***
translate([-14.322124421596527,-0.8669077139347791,-0.01120624168834193])
rotate([139.1750210010532, 1.0586025700072843, -8.062447364094146])
cube([3.378987442702065,2.51641757786275,2.4365506693720933],center=true);
//gt label: ***
translate([0.49646740779280674,-3.4003819525241856,-4.430934749543667])
rotate([169.43364803307446, -82.54568553642547, -80.71195981728893])
cube([4.822181425988676,2.514653671532871,0.7399983005598232],center=true);
//gt label: ***
```

```

translate([0.4944535344839095,-3.3902707882225513,4.4299811869859695])
rotate([-169.70305450083723, 82.40043095194424, -81.27587109581378])
cube([4.816342443227768,2.51477885991335,0.7377750286832456],center=true);
//gt label: ***
translate([-18.031493425369263,-0.879371538758278,3.3500738441944127])
rotate([-111.45557055257179, 70.98867524928433, -21.415623979541834])
cube([5.698197670280939,1.857860721647753,0.11583969229832725],center=true);
//gt label: ***
translate([-18.86580780148506,4.120122529566288,-0.03561457677278668])
rotate([0.015577260699152738, 0.23327545333733019, 94.02326829810939])
cube([2.348678056150694,1.7517704330385009,0.14861202798783824],center=true);
//gt label: ***
translate([-0.3278399910777808,-3.1725186109542847,9.961305409669876])
rotate([33.92674482592437, 82.53643281067012, 124.41954626868937])
cube([4.929474629461776,3.7014614418149105,0.614628540351993],center=true);
//gt label: ***
translate([-17.88057565689087,-0.8994258567690849,-3.4547751769423485])
rotate([107.22073837463746, -65.46056644774335, -16.068992305603714])
cube([5.685839876532558,1.8444823659956526,0.1169114129152275],center=true);

```

Airplane^{Cube}(partial) Answer: 3

```

//gt label: body
translate([-4.4803401082754135,-2.3446794040501118,-0.010926213362836307])
rotate([179.99832540193842, 0.02092757387061096, -4.407551599006336])
cube([14.15883451700211,3.96681245416403,3.30937020480633],center=true);

//gt label: tail
translate([19.35147315263748,-2.3588359355926514,-0.017098860262194666])
rotate([103.22551892903451, -89.68850952659633, -103.02606851346802])
cube([1.4854588918388032,1.4666296169162056,0.9966680314392127],center=true);

//gt label: wing
translate([-4.047834537923336,-2.5251344591379166,13.977147042751312])
rotate([-104.84296394673429, 63.76993566668482, -10.467470552035177])
cube([6.699303947389131,2.119463663548242,0.30590198235588006],center=true);

//gt label: engine
translate([4.485025964677334,-3.4974084794521336,4.64983657002449])
rotate([-1.5794320693704758, -82.50112081866051, -90.85857518356286])
cube([5.2757825702428836,3.977863043546678,1.3635911792516748],center=true);

//gt label: wing
translate([-4.05317522585392,-2.556444462388754,-13.916282951831818])
rotate([104.83362697532066, -63.78530813281644, -9.99065022559133])
cube([6.71284642070532,2.1321101486682927,0.3067173971794662],center=true);

//gt label: engine
translate([4.486228674650192,-3.5031433776021004,-4.64188925921917])
rotate([179.0626689301875, -82.27737919139358, 88.5497614067408])
cube([5.281359702348712,3.9733247086405776,1.3640574086457538],center=true);

//gt label: body
translate([10.91297559440136,-2.18883503228426,-0.016058923356467743])
rotate([0.06424524681481897, -0.36448483783202995, 1.5600131310411343])
cube([13.592597842216492,4.056088775396351,3.3325081318616876],center=true);

```

```

//gt label: engine
translate([-0.3295525722205638,-3.1723587960004807,-9.958050921559334])
rotate([-33.57586497967647,-82.35632091017473,124.19392975594913])
cube([4.933460578322414,3.70298828929663,0.6161986198276308],center=true);

//gt label: tail
translate([-16.954638957977295,0.9377738647162914,-0.0187698789522983])
rotate([0.17586049775788598,0.2639966728596206,70.2598060147382])
cube([5.249424576759342,2.284606192260994,0.38507016142830297],center=true);

//gt label: body
translate([-14.322124421596527,-0.8669077139347791,-0.01120624168834193])
rotate([139.1750210010532,1.0586025700072843,-8.062447364094146])
cube([3.378987442702065,2.51641757786275,2.4365506693720933],center=true);

//gt label: engine
translate([0.49646740779280674,-3.4003819525241856,-4.430934749543667])
rotate([169.43364803307446,-82.54568553642547,-80.71195981728893])
cube([4.822181425988676,2.514653671532871,0.7399983005598232],center=true);

//gt label: engine
translate([0.4944535344839095,-3.3902707882225513,4.4299811869859695])
rotate([-169.70305450083723,82.40043095194424,-81.27587109581378])
cube([4.816342443227768,2.51477885991335,0.7377750286832456],center=true);

//gt label: tail
translate([-18.031493425369263,-0.879371538758278,3.3500738441944127])
rotate([-111.45557055257179,70.98867524928433,-21.415623979541834])
cube([5.698197670280939,1.857860721647753,0.11583969229832725],center=true);

//gt label: tail
translate([-18.86580780148506,4.120122529566288,-0.03561457677278668])
rotate([0.015577260699152738,0.23327545333733019,94.02326829810939])
cube([2.348678056150694,1.7517704330385009,0.14861202798783824],center=true);

//gt label: engine
translate([-0.3278399910777808,-3.1725186109542847,9.961305409669876])
rotate([33.92674482592437,82.53643281067012,124.41954626868937])
cube([4.929474629461776,3.7014614418149105,0.614628540351993],center=true);

//gt label: tail
translate([-17.88057565689087,-0.8994258567690849,-3.4547751769423485])
rotate([107.22073837463746,-65.46056644774335,-16.068992305603714])
cube([5.685839876532558,1.8444823659956526,0.1169114129152275],center=true);

```

Airplane^{Cube}(partial) Question: 4

The following code describes a model airplane.

The airplane is consist of four parts, namely wing, body, tail, and engine.

Please annotate the following code to classify every code block. Block is defined with the 'code' sentence.

Here are an annotation example, please comment the given code following the structure of example.

Notice 1, all annotation should start with '//gt label:', and you should replace the placeholder *** with your prediction

Notice 2, you should only predict parts from wing, body, tail, and engine.

Task:

```
//gt label: ***
translate([7.582060694694519,-0.8136134734377265,0.010673422730178574])
rotate([117.5908223508261,-89.88028052667747,151.2633523186206])
cube([2.9756208509206776,2.2291155718266973,1.6206164471805113],center=true);
//gt label: ***
translate([-5.989491157233715,0.15583618893288073,4.4798192754387856])
rotate([86.43053739620203,-7.2321807615674985,-1.2067466120143868])
cube([1.7808299139142107,1.363333221524963,0.9327511675655858],center=true);
//gt label: ***
translate([-2.74593910202384,-0.16718886443413794,-12.884780690073967])
rotate([-123.40912611547402,-83.20658375898917,32.257242035233844])
cube([5.676467753946797,5.533650554716602,0.9517370816320206],center=true);
//gt label: ***
translate([-6.006421707570553,0.19017482642084363,-4.3698641285300255])
rotate([-86.15866192972756,7.901237713326876,-0.04428547162047872])
cube([1.8119565397500996,1.400645608082416,0.9536156244576006],center=true);
//gt label: ***
translate([-6.632417291402817,0.042038779356516884,0.12106833048164842])
rotate([-2.7018029000444166,-89.3967839932089,-91.08199256885845])
cube([3.0631588771939287,1.395140290260329,1.2514802720397846],center=true);
//gt label: ***
translate([1.9122754596173763,-0.4782107518985869,-6.530029997229575])
rotate([-95.75699191593023,3.2416210445054503,0.1610515868166719])
cube([5.7569894939661115,4.427450783550748,2.0465208403766164],center=true);
//gt label: ***
translate([-4.937656745314598,-0.5644229799509047,-7.185888439416885])
rotate([-92.91445405869247,2.455161973253575,-2.4629148932128375])
cube([4.833789318799984,3.843483254313482,1.1417334992438573],center=true);
//gt label: ***
translate([1.8948503024876118,-0.4846544191241265,6.544039212167263])
rotate([96.02241750533642,-3.1346558991233366,0.12475104841918119])
cube([5.755106955766679,4.3895303830504435,2.031264044344426],center=true);
//gt label: ***
translate([-2.346137408167124,0.2446413505822419,0.03922483883798123])
rotate([91.7418282457279,1.435789465910794,177.94691896766312])
cube([5.6527036800980675,5.3877161443233605,2.396653685718777],center=true);
//gt label: ***
translate([-4.929370135068893,-0.5756483925506473,7.199982479214668])
rotate([-87.08286068428667,-2.7126465891434703,-2.3110198425153032])
cube([4.817005470395101,3.8513572141528303,1.1392100621014838],center=true);
//gt label: ***
translate([-2.7720776572823524,-0.18513750517740848,12.895326837897302])
rotate([54.223714049713195,-82.86780415923307,-145.31477929124017])
cube([5.710964836180443,5.557915382087465,0.9538877196609985],center=true);
//gt label: ***
translate([-7.908781468868256,0.5355192162096499,0.12190410634502771])
rotate([-169.43527643470225,89.51704969640711,106.068263012849])
cube([2.740756589919329,1.0123296920210139,0.3820433071814509],center=true);
//gt label: ***
translate([-5.636060796678066,-0.11684840894304216,19.767055958509445])
rotate([-83.49157131139361,79.07282323743146,3.0570158717859184])
```



```

cube([8.758708536624912,3.8033426553010985,0.7928261067718279],center=true);

//gt label: ***
translate([3.5717224329710007,-0.7832196913659571,0.048454075586050804])
rotate([64.21646037555853, -89.92472175650519, -156.14423337454508])
cube([7.313624843955042,4.448320977389814,2.53123488277197],center=true);
//gt label: ***
translate([9.820144549012184,-1.0545084439218044,0.05640826944727452])
rotate([114.05685845481116, 89.85865331195842, -156.58582582443725])
cube([0.8348011970520022,0.3526416327804888,0.3014790266752922],center=true);
//gt label: ***
translate([-5.55074255913496,-0.11100573814474046,-19.73050832748413])
rotate([83.78349109368294, -79.29331185591928, 2.630074341079378])
cube([8.78828905522824,3.86009335517884,0.8084750128909952],center=true);

```

Airplane^{Cube}(partial) Answer: 4

```

//gt label: engine
translate([7.582060694694519,-0.8136134734377265,0.010673422730178574])
rotate([117.5908223508261, -89.88028052667747, 151.2633523186206])
cube([2.9756208509206776,2.2291155718266973,1.6206164471805113],center=true);
//gt label: engine
translate([-5.989491157233715,0.15583618893288073,4.4798192754387856])
rotate([86.43053739620203, -7.2321807615674985, -1.2067466120143868])
cube([1.7808299139142107,1.363333221524963,0.9327511675655858],center=true);
//gt label: wing
translate([-2.74593910202384,-0.16718886443413794,-12.884780690073967])
rotate([-123.40912611547402, -83.20658375898917, 32.257242035233844])
cube([5.676467753946797,5.533650554716602,0.9517370816320206],center=true);
//gt label: engine
translate([-6.006421707570553,0.19017482642084363,-4.3698641285300255])
rotate([-86.15866192972756, 7.901237713326876, -0.04428547162047872])
cube([1.8119565397500996,1.400645608082416,0.9536156244576006],center=true);
//gt label: body
translate([-6.632417291402817,0.042038779356516884,0.12106833048164842])
rotate([-2.7018029000444166, -89.3967839932089, -91.08199256885845])
cube([3.0631588771939287,1.395140290260329,1.2514802720397846],center=true);
//gt label: tail
translate([1.9122754596173763,-0.4782107518985869,-6.530029997229575])
rotate([-95.75699191593023, 3.2416210445054503, 0.1610515868166719])
cube([5.7569894939661115,4.427450783550748,2.0465208403766164],center=true);
//gt label: tail
translate([-4.937656745314598,-0.5644229799509047,-7.185888439416885])
rotate([-92.91445405869247, 2.455161973253575, -2.4629148932128375])
cube([4.833789318799984,3.843483254313482,1.1417334992438573],center=true);
//gt label: wing
translate([1.8948503024876118,-0.4846544191241265,6.544039212167263])
rotate([96.02241750533642, -3.1346558991233366, 0.12475104841918119])
cube([5.755106955766679,4.3895303830504435,2.031264044344426],center=true);
//gt label: body
translate([-2.346137408167124,0.2446413505822419,0.03922483883798123])
rotate([91.7418282457279, 1.435789465910794, 177.94691896766312])
cube([5.6527036800980675,5.3877161443233605,2.396653685718777],center=true);
//gt label: tail
translate([-4.929370135068893,-0.5756483925506473,7.199982479214668])
rotate([-87.08286068428667, -2.7126465891434703, -2.3110198425153032])

```

```

cube([4.817005470395101,3.8513572141528303,1.1392100621014838],center=true);
//gt label: wing
translate([-2.7720776572823524,-0.18513750517740848,12.895326837897302])
rotate([54.223714049713195, -82.86780415923307, -145.31477929124017])
cube([5.710964836180443,5.557915382087465,0.9538877196609985],center=true);
//gt label: engine
translate([-7.908781468868256,0.5355192162096499,0.12190410634502771])
rotate([-169.43527643470225, 89.51704969640711, 106.068263012849])
cube([2.740756589919329,1.0123296920210139,0.3820433071814509],center=true);
//gt label: wing
translate([-5.636060796678066,-0.11684840894304216,19.767055958509445])
rotate([-83.49157131139361, 79.07282323743146, 3.0570158717859184])
cube([8.758708536624912,3.8033426553010985,0.7928261067718279],center=true);

//gt label: body
translate([3.5717224329710007,-0.7832196913659571,0.048454075586050804])
rotate([64.21646037555853, -89.92472175650519, -156.14423337454508])
cube([7.313624843955042,4.448320977389814,2.53123488277197],center=true);
//gt label: engine
translate([9.820144549012184,-1.0545084439218044,0.05640826944727452])
rotate([114.05685845481116, 89.85865331195842, -156.58582582443725])
cube([0.8348011970520022,0.3526416327804888,0.3014790266752922],center=true);
//gt label: wing
translate([-5.55074255913496,-0.11100573814474046,-19.73050832748413])
rotate([83.78349109368294, -79.29331185591928, 2.630074341079378])
cube([8.78828905522824,3.86009335517884,0.8084750128909952],center=true);

```

Airplane^{Cube}(partial) Question: 5

The following code describes a model airplane.

The airplane is consist of four parts, namely wing, body, tail, and engine.

Please annotate the following code to classify every code block. Block is defined with the 'code' sentence.

Here are an annotation example, please comment the given code following the structure of example.

Notice 1, all annotation should start with '//gt label:', and you should replace the placeholder *** with your prediction

Notice 2, you should only predict parts from wing, body, tail, and engine.

Task:

```

//gt label: ***
translate([2.9740624502301216,-3.8214775547385216,4.676979295909405])
rotate([48.991454332548564, 89.84962237121421, -40.38957160626654])
cube([5.944863446056845,2.4114754982292657,0.5809047678485555],center=true);
//gt label: ***
translate([-16.854973435401917,-1.8270086497068405,3.154975026845932])
rotate([-100.76540340709951, 79.28596712731512, -11.788116532293104])
cube([4.287483207881452,1.8517297692596948,0.11259619146585866],center=true);
//gt label: ***
translate([4.098080359399319,-3.8107724115252495,10.418190136551857])
rotate([-58.7244183672916, -85.70800509331495, -32.428692893220024])
cube([4.487958364188948,4.443379007280153,0.5954402964562203],center=true);

```

```

//gt label: ***
translate([6.480830758810043,-3.8918178528547287,4.650183245539665])
rotate([-173.87965615422672, -84.45812372469528, -96.51373201756485])
cube([5.633834451436998,3.5788333788514164,1.15461120381952],center=true);
//gt label: ***
translate([10.669450387358665,-2.730014566332102,-0.029037086933385737])
rotate([0.16200673988774242, -0.203938913393779, 0.09303678984283609])
cube([13.310545757412914,3.838756829500202,3.3505299314856574],center=true);
//gt label: ***
translate([-17.439861744642258,4.058343805372715,0.06194746471010148])
rotate([0.3603979699975381, -0.41050285760381033, 103.64422874165668])
cube([2.781330123543786,2.191038429737147,0.14844513149000793],center=true);
//gt label: ***
translate([-13.871272504329681,-1.8559787981212141,0.029614210361614837])
rotate([139.56730956917485, 0.6282807067036446, -8.081027930114278])
cube([4.343831501901157,2.434399109333779,2.3602771386504413],center=true);
//gt label: ***
translate([2.975103911012411,-3.8078416511416435,-4.661385454237461])
rotate([47.30279482263276, 89.86604992485822, 137.7311591465931])
cube([5.90829409658909,2.4130767211318025,0.5818469077348721],center=true);
//gt label: ***
translate([4.088809043169022,-3.7932689860463142,-10.431443303823471])
rotate([118.52024709354355, -85.50993289630408, 150.1964690427789])
cube([4.502600282430759,4.446491710841766,0.5941733019426494],center=true);
//gt label: ***
translate([6.481567546725273,-3.873779661953449,-4.647144712507725])
rotate([173.34208878648465, 84.45186140354788, -96.95115390985654])
cube([5.627899579703813,3.557060845196259,1.14821819588543],center=true);
//gt label: ***
translate([-16.74896940588951,-1.8076939880847933,-3.172638062387705])
rotate([100.91012515470068, -75.7748431983143, -11.286440711293574])
cube([4.2876352369785575,1.8424689024687435,0.11376293026844068],center=true);
//gt label: ***
translate([2.6687964238226414,-3.6889594048261642,15.20717144012451])
rotate([-99.75075158696876, 81.69817719279854, -8.666054939714511])
cube([5.23786913603545,2.981903627514853,0.328212995082151],center=true);

//gt label: ***
translate([18.170802891254425,-2.210857532918453,-0.04945462540490554])
rotate([-51.71227500620777, 89.96138128009756, 127.8807185530091])
cube([1.313095698133111,1.2585127446800708,0.8108676783740897],center=true);
//gt label: ***
translate([2.6666569523513317,-3.648683577775955,-15.2097088098526])
rotate([99.60243246282673, -81.53295681944715, -8.493162511796692])
cube([5.2578878030181,2.996884845197213,0.3275234345346707],center=true);
//gt label: ***
translate([-3.4958427026867867,-2.4658922851085667,-0.011555958553799345])
rotate([-179.87435738316125, 0.17214619344374193, -0.1073028669735464])
cube([14.646199643611912,3.5272586345672634,3.0887274257838744],center=true);
//gt label: ***
translate([-17.030799388885498,0.1135369227267802,0.039311418076977134])
rotate([1.504735854888443, -0.8910460515539764, 64.2993925632759])
cube([4.876379184424877,2.20578094944358,0.35494230221957024],center=true);

```

Airplane^{Cube}(partial) Answer: 5

```
//gt label: wing
translate ([2.9740624502301216, -3.8214775547385216, 4.676979295909405])
rotate ([48.991454332548564, 89.84962237121421, -40.38957160626654])
cube ([5.944863446056845, 2.4114754982292657, 0.5809047678485555], center=true);
//gt label: tail
translate ([-16.854973435401917, -1.8270086497068405, 3.154975026845932])
rotate ([-100.76540340709951, 79.28596712731512, -11.788116532293104])
cube ([4.287483207881452, 1.8517297692596948, 0.11259619146585866], center=true);
//gt label: engine
translate ([4.098080359399319, -3.8107724115252495, 10.418190136551857])
rotate ([-58.7244183672916, -85.70800509331495, -32.428692893220024])
cube ([4.487958364188948, 4.443379007280153, 0.5954402964562203], center=true);
//gt label: engine
translate ([6.480830758810043, -3.8918178528547287, 4.650183245539665])
rotate ([-173.87965615422672, -84.45812372469528, -96.51373201756485])
cube ([5.633834451436998, 3.5788333788514164, 1.15461120381952], center=true);
//gt label: body
translate ([10.669450387358665, -2.730014566332102, -0.029037086933385737])
rotate ([0.16200673988774242, -0.203938913393779, 0.09303678984283609])
cube ([13.310545757412914, 3.838756829500202, 3.3505299314856574], center=true);
//gt label: tail
translate ([-17.439861744642258, 4.058343805372715, 0.06194746471010148])
rotate ([0.3603979699975381, -0.41050285760381033, 103.64422874165668])
cube ([2.781330123543786, 2.191038429737147, 0.14844513149000793], center=true);
//gt label: body
translate ([-13.871272504329681, -1.8559787981212141, 0.029614210361614837])
rotate ([139.56730956917485, 0.6282807067036446, -8.081027930114278])
cube ([4.343831501901157, 2.434399109333779, 2.3602771386504413], center=true);
//gt label: wing
translate ([2.975103911012411, -3.8078416511416435, -4.661385454237461])
rotate ([47.30279482263276, 89.86604992485822, 137.7311591465931])
cube ([5.90829409658909, 2.4130767211318025, 0.5818469077348721], center=true);
//gt label: engine
translate ([4.088809043169022, -3.7932689860463142, -10.431443303823471])
rotate ([118.52024709354355, -85.50993289630408, 150.1964690427789])
cube ([4.502600282430759, 4.446491710841766, 0.5941733019426494], center=true);
//gt label: engine
translate ([6.481567546725273, -3.873779661953449, -4.647144712507725])
rotate ([173.34208878648465, 84.45186140354788, -96.95115390985654])
cube ([5.627899579703813, 3.557060845196259, 1.14821819588543], center=true);
//gt label: tail
translate ([-16.74896940588951, -1.8076939880847933, -3.172638062387705])
rotate ([100.91012515470068, -75.7748431983143, -11.286440711293574])
cube ([4.2876352369785575, 1.8424689024687435, 0.11376293026844068], center=true);
//gt label: wing
translate ([2.6687964238226414, -3.6889594048261642, 15.20717144012451])
rotate ([-99.75075158696876, 81.69817719279854, -8.666054939714511])
cube ([5.23786913603545, 2.981903627514853, 0.328212995082151], center=true);
//gt label: engine
translate ([18.170802891254425, -2.210857532918453, -0.04945462540490554])
rotate ([-51.71227500620777, 89.96138128009756, 127.8807185530091])
cube ([1.313095698133111, 1.25851274446800708, 0.8108676783740897], center=true);
//gt label: wing
translate ([2.6666569523513317, -3.648683577775955, -15.2097088098526])
rotate ([99.60243246282673, -81.53295681944715, -8.493162511796692])
cube ([5.2578878030181, 2.996884845197213, 0.3275234345346707], center=true);
```

```
//gt label: body
translate([-3.4958427026867867,-2.4658922851085667,-0.011555958553799345])
rotate([-179.87435738316125, 0.17214619344374193, -0.1073028669735464])
cube([14.646199643611912,3.5272586345672634,3.0887274257838744],center=true);
//gt label: tail
translate([-17.030799388885498,0.1135369227267802,0.039311418076977134])
rotate([1.504735854888443, -0.8910460515539764, 64.2993925632759])
cube([4.876379184424877,2.20578094944358,0.35494230221957024],center=true);
```

Airplane^{Cube}(partial) Question: 6

The following code describes a model airplane.

The airplane is consist of four parts, namely wing, body, tail, and engine.

Please annotate the following code to classify every code block. Block is defined with the 'code' sentence.

Here are an annotation example, please comment the given code following the structure of example.

Notice 1, all annotation should start with '//gt label:', and you should replace the placeholder *** with your prediction

Notice 2, you should only predict parts from wing, body, tail, and engine.

Task:

```
//gt label: ***
translate([1.7925461940467355,-4.249418154358864,-4.342959076166153])
rotate([-173.46678831919925, -85.80540001321393, 80.03467039580622])
cube([4.222032018005853,3.5428266599774396,1.3572934456169667],center=true);
//gt label: ***
translate([-18.50606679916382,-1.5162854548543692,3.581559658050537])
rotate([-121.4253857359514, 71.25195714953539, -32.351150232989944])
cube([5.068529620766643,1.4543186407536397,0.12695063487629138],center=true);
//gt label: ***
translate([-2.6921517401933674,-3.1398325599730015,-8.746909275650978])
rotate([112.13637190067487, -75.12611967736886, -20.983249684429193])
cube([4.473304972052578,2.768377121537928,0.5180199397727886],center=true);
//gt label: ***
translate([-6.000542156398296,-2.798768598586321,-0.010049709017039275])
rotate([90.00454549265245, 0.07107798946183885, -1.6802750977639527])
cube([14.244629740715032,3.8977949321270002,3.760322518646719],center=true);
//gt label: ***
translate([-15.522877275943756,-1.9791559688746931,-0.027850332844536762])
rotate([-177.88706452954585, -51.650273502731835, 79.08214167670563])
cube([2.970514353364778,2.878327351063629,2.7701754495502247],center=true);
//gt label: ***
translate([-17.680680751800537,-0.09093458065763116,-0.01035835164657329])
rotate([-0.12271285867400726, 0.4463140169460616, 76.286960688138])
cube([5.594065114855767,2.211204208433628,0.6109681120142345],center=true);
//gt label: ***
translate([-18.41372162103653,-1.5141951572149992,-3.6957982555031776])
rotate([117.77855361825083, -67.89409558375439, -27.545279549129397])
cube([5.076169185340406,1.4379124063998556,0.12569904560223977],center=true);
//gt label: ***
translate([-2.6840487122535706,-3.134591039270163,8.759698569774628])
```

```

rotate([-112.97692722512515, 75.05406084693053, -21.641985213729217])
cube([4.461636841297151,2.7660100162029293,0.5161132244393295],center=true);
//gt label: ***
translate([18.883921802043915,-3.377793747931719,-0.0054192187963053445])
rotate([-52.09877395163174, -89.8803221224425, -127.95469705893517])
cube([1.7406602203846013,1.6422848962247458,1.115490552037962],center=true);
//gt label: ***
translate([-1.3676349073648455,-3.8242382556200023,4.198714606463909])
rotate([168.51254903240823, 85.14183180245382, -101.15045847816913])
cube([4.160876572132112,2.247832566499712,0.7658232701942345],center=true);
//gt label: ***
translate([-19.0590101480484,3.899596743285656,-0.015259650099324062])
rotate([179.87360191101203, -0.1504050145781123, -82.24047650306181])
cube([2.9095115512609544,1.5957570262253378,0.17636689124628913],center=true);
//gt label: ***
translate([-5.248727947473526,-2.4745253659784794,-14.013840556144714])
rotate([109.89424263203908, -69.12760625537017, -20.417955850814955])
cube([6.435828916728497,1.4722913689911428,0.3030487219803177],center=true);
//gt label: ***
translate([-1.375533966347575,-3.8190151751041412,-4.19157087802887])
rotate([-170.30973055281905, -85.3349746501877, -99.51727931068837])
cube([4.165925495326521,2.2408275492489347,0.7595643633976623],center=true);
//gt label: ***
translate([1.788662485778332,-4.24810316413641,4.329006001353264])
rotate([5.257742675541998, -85.83462501802028, -98.78805930193221])
cube([4.208869822323326,3.552731908857825,1.3579544238746193],center=true);
//gt label: ***
translate([-5.248141549527645,-2.4729768000543118,14.026461839675903])
rotate([-110.65534389727655, 69.0608673104898, -21.212035742382476])
cube([6.437081620097162,1.4740151166915916,0.3055525664240132],center=true);

//gt label: ***
translate([9.872481897473335,-3.1046685576438904,-0.01761319261277086])
rotate([0.18251522455821348, -0.170573144795035, 0.08616103231700017])
cube([14.553167670965198,3.7681866437196785,3.739449456334119],center=true);

```

Airplane^{Cube}(partial) Answer: 6

```

//gt label: wing
translate([1.7925461940467355,-4.249418154358864,-4.342959076166153])
rotate([-173.46678831919925, -85.80540001321393, 80.03467039580622])
cube([4.222032018005853,3.5428266599774396,1.3572934456169667],center=true);
//gt label: tail
translate([-18.50606679916382,-1.5162854548543692,3.581559658050537])
rotate([-121.4253857359514, 71.25195714953539, -32.351150232989944])
cube([5.068529620766643,1.4543186407536397,0.12695063487629138],center=true);
//gt label: wing
translate([-2.6921517401933674,-3.1398325599730015,-8.746909275650978])
rotate([112.13637190067487, -75.12611967736886, -20.983249684429193])
cube([4.473304972052578,2.768377121537928,0.5180199397727886],center=true);
//gt label: body
translate([-6.000542156398296,-2.798768598586321,-0.010049709017039275])
rotate([90.00454549265245, 0.07107798946183885, -1.6802750977639527])
cube([14.244629740715032,3.8977949321270002,3.760322518646719],center=true);
//gt label: engine
translate([-15.522877275943756,-1.9791559688746931,-0.027850332844536762])

```

```

rotate([-177.88706452954585, -51.650273502731835, 79.08214167670563])
cube([2.970514353364778,2.878327351063629,2.7701754495502247],center=true);
//gt label: tail
translate([-17.680680751800537,-0.09093458065763116,-0.01035835164657329])
rotate([-0.12271285867400726, 0.4463140169460616, 76.286960688138])
cube([5.594065114855767,2.211204208433628,0.6109681120142345],center=true);
//gt label: tail
translate([-18.41372162103653,-1.5141951572149992,-3.6957982555031776])
rotate([117.77855361825083, -67.89409558375439, -27.545279549129397])
cube([5.076169185340406,1.4379124063998556,0.12569904560223977],center=true);
//gt label: wing
translate([-2.6840487122535706,-3.134591039270163,8.759698569774628])
rotate([-112.97692722512515, 75.05406084693053, -21.641985213729217])
cube([4.461636841297151,2.7660100162029293,0.5161132244393295],center=true);
//gt label: engine
translate([18.883921802043915,-3.377793747931719,-0.0054192187963053445])
rotate([-52.09877395163174, -89.8803221224425, -127.95469705893517])
cube([1.7406602203846013,1.6422848962247458,1.115490552037962],center=true);
//gt label: wing
translate([-1.3676349073648455,-3.8242382556200023,4.198714606463909])
rotate([168.51254903240823, 85.14183180245382, -101.15045847816913])
cube([4.160876572132112,2.247832566499712,0.7658232701942345],center=true);
//gt label: tail
translate([-19.0590101480484,3.899596743285656,-0.015259650099324062])
rotate([179.87360191101203, -0.1504050145781123, -82.24047650306181])
cube([2.9095115512609544,1.5957570262253378,0.17636689124628913],center=true);
//gt label: wing
translate([-5.248727947473526,-2.4745253659784794,-14.013840556144714])
rotate([109.89424263203908, -69.12760625537017, -20.417955850814955])
cube([6.435828916728497,1.4722913689911428,0.3030487219803177],center=true);
//gt label: wing
translate([-1.375533966347575,-3.8190151751041412,-4.19157087802887])
rotate([-170.30973055281905, -85.3349746501877, -99.51727931068837])
cube([4.165925495326521,2.2408275492489347,0.7595643633976623],center=true);
//gt label: wing
translate([1.788662485778332,-4.24810316413641,4.329006001353264])
rotate([5.257742675541998, -85.83462501802028, -98.78805930193221])
cube([4.208869822323326,3.552731908857825,1.3579544238746193],center=true);
//gt label: wing
translate([-5.248141549527645,-2.4729768000543118,14.026461839675903])
rotate([-110.65534389727655, 69.0608673104898, -21.212035742382476])
cube([6.437081620097162,1.4740151166915916,0.3055525664240132],center=true);

//gt label: body
translate([9.872481897473335,-3.1046685576438904,-0.01761319261277086])
rotate([0.18251522455821348, -0.170573144795035, 0.08616103231700017])
cube([14.553167670965198,3.7681866437196785,3.739449456334119],center=true);

```

Airplane^{Cube}(partial) Question: 7

The following code describes a model airplane.

The airplane is consist of four parts, namely wing, body, tail, and engine.

Please annotate the following code to classify every code block. Block is defined with the 'code' sentence.

Here are an annotation example, please comment the given code following the structure of example.

Notice 1, all annotation should start with '//gt label:', and you should replace the placeholder *** with your prediction

Notice 2, you should only predict parts from wing, body, tail, and engine.

Task:

```
//gt label: ***
translate([-1.278454065322876,-2.111927978694439,-9.177337661385536])
rotate([114.55364480684531,-70.30537153883601,-22.959150685791794])
cube([4.869928397238255,2.8752767294645345,0.6428824923932591],center=true);
//gt label: ***
translate([-16.08968436717987,-1.521627577021718,3.321653418242932])
rotate([-115.59567814619595,73.28218546640423,-26.52712823939206])
cube([5.262804366648199,1.4352577365934929,0.1354673760943259],center=true);
//gt label: ***
translate([-15.925291329622269,-1.5076432563364506,-3.3586171828210354])
rotate([110.77806988286113,-68.15934253758837,-20.309029904131258])
cube([5.273761115968228,1.4222018793225337,0.1354826532769974],center=true);
//gt label: ***
translate([-0.07860784709919244,-3.1628256291151047,4.195363819599152])
rotate([-173.73234439557632,77.8640133450877,-84.83953194451486])
cube([4.951052926480771,2.581791114062071,0.9215742629021417],center=true);
//gt label: ***
translate([-4.391236305236816,-1.2839819211512804,-15.079670250415802])
rotate([107.8511410121114,-65.04627673784022,-17.647871779339702])
cube([7.169134914875031,1.4960507303476438,0.360361002385624],center=true);
//gt label: ***
translate([3.775234073400497,-3.440604917705059,4.806764200329781])
rotate([26.729296085762712,-83.92278461743443,-122.60319635134954])
cube([5.179474800825126,4.009479768574247,1.7138132546097058],center=true);
//gt label: ***
translate([-15.576755404472351,0.2548976545222104,0.01998864725464954])
rotate([0.5050914169017917,0.3444020031520882,67.53598836906558])
cube([5.254709944128993,1.9854571856558405,0.38667230634018807],center=true);
//gt label: ***
translate([17.356667816638947,-2.814698461443186,0.03309953695861624])
rotate([72.53444119050451,89.73536869578345,-107.8894826657378])
cube([1.7013720702379973,1.6735716443509072,1.1193613521755008],center=true);
//gt label: ***
translate([-4.394926801323891,-1.2792529352009296,15.070446878671646])
rotate([-108.04407198002691,65.01144909189343,-17.875282409222383])
cube([7.178377956151968,1.498098615556976,0.3612455166876477],center=true);

//gt label: ***
translate([-16.616878658533096,3.770411349833012,0.05463805631734431])
rotate([0.06876515030771553,-0.08831176407319571,97.5747663466869])
cube([2.4647250212729257,1.5671994257718742,0.14074128237552955],center=true);
//gt label: ***
translate([-1.2785014975816014,-2.1098932065069675,9.173748791217804])
rotate([-114.59611011215691,70.25127070173833,-22.933204052317848])
cube([4.858209043741231,2.8776821494102527,0.6448019109666414],center=true);
//gt label: ***
translate([3.7751861289143567,-3.4400390088558197,-4.794585891067983])
rotate([-153.61629884770636,-84.13249479045038,57.786741596795316])
cube([5.168773345649248,3.9960995689034524,1.7041274439543503],center=true);
```



```

//gt label: ***
translate([-13.754878044128418, -1.4589551184326408, 0.03167223767377428])
rotate([-130.5612156118152, 1.1388244509399705, -6.958652550439094])
cube([2.460635807365352, 2.3930746503175624, 2.3262117616832976], center=true);
//gt label: ***
translate([-5.3131526336073875, -2.1989681199193005, 0.017225995106855407])
rotate([90.06938876635326, 0.09602302655894807, -2.462319844903011])
cube([12.416756451129913, 3.3480105921626113, 3.316315393894915], center=true);
//gt label: ***
translate([8.878822177648544, -2.4167807400226597, 0.02409586915746332])
rotate([179.79246555461484, -0.21620657500465373, -0.33374323508761633])
cube([13.283169046044353, 3.4864939376711903, 3.396264463663107], center=true);
//gt label: ***
translate([-0.07353749999310824, -3.1678919680416584, -4.189077354967594])
rotate([173.28404519156922, -77.98195523414104, -84.36781291750843])
cube([4.959690719842912, 2.5697099231183533, 0.9189965296536695], center=true);

```

Airplane^{Cube}(partial) Answer: 7

```

//gt label: wing
translate([-1.278454065322876, -2.111927978694439, -9.177337661385536])
rotate([114.55364480684531, -70.30537153883601, -22.959150685791794])
cube([4.869928397238255, 2.8752767294645345, 0.6428824923932591], center=true);
//gt label: wing
translate([-16.08968436717987, -1.521627577021718, 3.321653418242932])
rotate([-115.59567814619595, 73.28218546640423, -26.52712823939206])
cube([5.262804366648199, 1.4352577365934929, 0.1354673760943259], center=true);
//gt label: wing
translate([-15.925291329622269, -1.5076432563364506, -3.3586171828210354])
rotate([110.77806988286113, -68.15934253758837, -20.309029904131258])
cube([5.273761115968228, 1.4222018793225337, 0.1354826532769974], center=true);
//gt label: body
translate([-0.07860784709919244, -3.1628256291151047, 4.195363819599152])
rotate([-173.73234439557632, 77.8640133450877, -84.83953194451486])
cube([4.951052926480771, 2.581791114062071, 0.9215742629021417], center=true);
//gt label: tail
translate([-4.391236305236816, -1.2839819211512804, -15.079670250415802])
rotate([107.8511410121114, -65.04627673784022, -17.647871779339702])
cube([7.169134914875031, 1.4960507303476438, 0.360361002385624], center=true);
//gt label: wing
translate([3.775234073400497, -3.440604917705059, 4.806764200329781])
rotate([26.729296085762712, -83.92278461743443, -122.60319635134954])
cube([5.179474800825126, 4.009479768574247, 1.7138132546097058], center=true);
//gt label: body
translate([-15.576755404472351, 0.2548976545222104, 0.01998864725464954])
rotate([0.5050914169017917, 0.3444020031520882, 67.53598836906558])
cube([5.254709944128993, 1.9854571856558405, 0.38667230634018807], center=true);
//gt label: engine
translate([17.356667816638947, -2.814698461443186, 0.03309953695861624])
rotate([72.53444119050451, 89.73536869578345, -107.8894826657378])
cube([1.7013720702379973, 1.6735716443509072, 1.1193613521755008], center=true);
//gt label: tail
translate([-4.394926801323891, -1.2792529352009296, 15.070446878671646])
rotate([-108.04407198002691, 65.01144909189343, -17.875282409222383])
cube([7.178377956151968, 1.498098615556976, 0.3612455166876477], center=true);
//gt label: wing

```

```

translate([-16.616878658533096,3.770411349833012,0.05463805631734431])
rotate([0.06876515030771553, -0.08831176407319571, 97.5747663466869])
cube([2.4647250212729257,1.5671994257718742,0.14074128237552955],center=true);
//gt label: wing
translate([-1.2785014975816014,-2.1098932065069675,9.173748791217804])
rotate([-114.59611011215691, 70.25127070173833, -22.933204052317848])
cube([4.858209043741231,2.8776821494102527,0.6448019109666414],center=true);
//gt label: wing
translate([3.7751861289143567,-3.4400390088558197,-4.794585891067983])
rotate([-153.61629884770636, -84.13249479045038, 57.786741596795316])
cube([5.168773345649248,3.9960995689034524,1.7041274439543503],center=true);
//gt label: body
translate([-13.754878044128418,-1.4589551184326408,0.03167223767377428])
rotate([-130.5612156118152, 1.1388244509399705, -6.958652550439094])
cube([2.460635807365352,2.3930746503175624,2.3262117616832976],center=true);
//gt label: body
translate([-5.3131526336073875,-2.1989681199193005,0.017225995106855407])
rotate([90.06938876635326, 0.09602302655894807, -2.462319844903011])
cube([12.416756451129913,3.3480105921626113,3.316315393894915],center=true);
//gt label: body
translate([8.878822177648544,-2.4167807400226597,0.02409586915746332])
rotate([179.79246555461484, -0.21620657500465373, -0.33374323508761633])
cube([13.283169046044353,3.4864939376711903,3.396264463663107],center=true);
//gt label: body
translate([-0.07353749999310824,-3.1678919680416584,-4.189077354967594])
rotate([173.28404519156922, -77.98195523414104, -84.36781291750843])
cube([4.959690719842912,2.5697099231183533,0.9189965296536695],center=true);

```

Airplane^{Cube}(partial) Question: 8

The following code describes a model airplane.

The airplane is consist of four parts, namely wing, body, tail, and engine.

Please annotate the following code to classify every code block. Block is defined with the 'code' sentence.

Here are an annotation example, please comment the given code following the structure of example.

Notice 1, all annotation should start with '//gt label:', and you should replace the placeholder *** with your prediction

Notice 2, you should only predict parts from wing, body, tail, and engine.

Task:

```

//gt label: ***
translate([-17.90530353784561,-0.4233527835458517,2.74598540738225])
rotate([-113.68592610462156, 72.64425720741707, -23.812125606164575])
cube([4.84480548650027,1.3723911438137533,0.11228706222028623],center=true);
//gt label: ***
translate([-17.744829654693604,-0.430249976925552,-2.812629472464323])
rotate([109.54628278179611, -67.44821910385404, -18.676597301557255])
cube([4.80292577296496,1.3747275155037788,0.1127774303313393],center=true);
//gt label: ***
translate([10.0747437030077,-1.9083327427506447,-0.0006982492050154837])
rotate([-0.05892903135943894, -0.1617540173190407, 0.31280948186522095])

```

```

cube([13.750086873769764,3.3232675492763555,3.0810356140136745],center=true);
//gt label: ***
translate([-16.721850037574768,1.0338530782610178,-0.026017392665380612])
rotate([0.49425234860228584, 0.14776270423852833, 71.35075479544959])
cube([4.3274287506938025,2.0662538893520894,0.38675008807331335],center=true);
//gt label: ***
translate([-4.930363856256008,-1.9074390083551407,-0.016253249632427386])
rotate([-179.9438339975719, -0.03410166617695409, -2.913290948596023])
cube([13.805099278688434,3.2583341188728885,3.1610092706978397],center=true);
//gt label: ***
translate([4.3768709897994995,-3.060211520642042,4.160130359232426])
rotate([-5.229159361927696, -81.16684911915515, -88.20017514034282])
cube([4.763805940747264,3.654159493744377,1.3818683754652792],center=true);
//gt label: ***
translate([18.40419828891754,-2.1205524541437626,0.019635658536572023])
rotate([110.84692527689855, -89.96841412993534, -110.71131177578891])
cube([1.4589620847255034,1.4235505741089898,0.9601690620184421],center=true);
//gt label: ***
translate([4.39149159938097,-3.0657284148037434,-4.154196307063103])
rotate([175.11500242405285, -81.1880658416691, 91.50513121070134])
cube([4.7588029131293315,3.6628702282905587,1.38086758553982],center=true);
//gt label: ***
translate([-3.2160296663641934,-1.5422366373240946,-14.229494035243988])
rotate([106.24634760227764, -63.21570890706951, -11.959269467950147])
cube([8.041014820337296,1.4166125562042031,0.28260418912396074],center=true);
//gt label: ***
translate([0.1395721617154778,-2.352468129247427,9.791966304183006])
rotate([139.33973604036166, -80.24403496634767, -49.73937798800217])
cube([5.137044750154021,2.92815847322345,0.5638726428151167],center=true);
//gt label: ***
translate([-18.29918920993805,3.8204633444547653,-0.022211763862287633])
rotate([-0.03225921756317605, 0.06588269045209724, 94.89455426434833])
cube([1.9065870717168263,1.35996676050132,0.1350036438088867],center=true);
//gt label: ***
translate([0.4880200093612075,-2.885601185262203,-4.470735639333725])
rotate([-3.2670617126984935, -80.98235340254361, -88.4849278389839])
cube([4.582867138087751,2.5652199424803266,0.7969965087249888],center=true);
//gt label: ***
translate([0.48188690561801206,-2.8740322217345238,4.474218785762787])
rotate([176.95603396313686, -81.0974516047518, 91.15791240974234])
cube([4.590496048331262,2.5631251372396955,0.7960271183401371],center=true);
//gt label: ***
translate([-14.301597625017164,-0.6934788310900333,-0.03058212809264662])
rotate([-128.50664852923367, 0.6251240203599325, -9.504609084128793])
cube([3.204482421278968,2.29870596900584,2.084826435893789],center=true);
//gt label: ***
translate([0.14538773568347096,-2.3451469652354717,-9.795063436031342])
rotate([-138.12449044434152, 80.1568701146726, -48.521086282423894])
cube([5.146000124514106,2.927572280168537,0.5640799924731289],center=true);
//gt label: ***
translate([-3.2276695221662526,-1.5527412947267292,14.28232640028])
rotate([-105.93359310550335, 63.28230851015245, -11.98841689226413])
cube([8.033440411090854,1.4101956784725238,0.2838211390189947],center=true);

```

Airplane^{Cube}(partial) Answer: 8

```
//gt label: wing
translate([-17.90530353784561,-0.4233527835458517,2.74598540738225])
rotate([-113.68592610462156, 72.64425720741707, -23.812125606164575])
cube([4.84480548650027,1.3723911438137533,0.11228706222028623],center=true);
//gt label: wing
translate([-17.744829654693604,-0.430249976925552,-2.812629472464323])
rotate([109.54628278179611, -67.44821910385404, -18.676597301557255])
cube([4.80292577296496,1.3747275155037788,0.1127774303313393],center=true);
//gt label: body
translate([10.0747437030077,-1.9083327427506447,-0.0006982492050154837])
rotate([-0.05892903135943894, -0.1617540173190407, 0.31280948186522095])
cube([13.750086873769764,3.3232675492763555,3.0810356140136745],center=true);
//gt label: tail
translate([-16.721850037574768,1.0338530782610178,-0.026017392665380612])
rotate([0.49425234860228584, 0.14776270423852833, 71.35075479544959])
cube([4.3274287506938025,2.0662538893520894,0.38675008807331335],center=true);
//gt label: body
translate([-4.930363856256008,-1.9074390083551407,-0.016253249632427386])
rotate([-179.9438339975719, -0.03410166617695409, -2.913290948596023])
cube([13.805099278688434,3.2583341188728885,3.1610092706978397],center=true);
//gt label: engine
translate([4.3768709897994995,-3.060211520642042,4.160130359232426])
rotate([-5.229159361927696, -81.16684911915515, -88.20017514034282])
cube([4.763805940747264,3.654159493744377,1.3818683754652792],center=true);
//gt label: tail
translate([18.40419828891754,-2.1205524541437626,0.019635658536572023])
rotate([110.84692527689855, -89.96841412993534, -110.71131177578891])
cube([1.4589620847255034,1.4235505741089898,0.9601690620184421],center=true);
//gt label: engine
translate([4.39149159938097,-3.0657284148037434,-4.154196307063103])
rotate([175.11500242405285, -81.1880658416691, 91.50513121070134])
cube([4.7588029131293315,3.6628702282905587,1.38086758553982],center=true);
//gt label: tail
translate([-3.2160296663641934,-1.5422366373240946,-14.229494035243988])
rotate([106.24634760227764, -63.21570890706951, -11.959269467950147])
cube([8.041014820337296,1.4166125562042031,0.28260418912396074],center=true);
//gt label: wing
translate([0.1395721617154778,-2.352468129247427,9.791966304183006])
rotate([139.33973604036166, -80.24403496634767, -49.73937798800217])
cube([5.137044750154021,2.92815847322345,0.5638726428151167],center=true);
//gt label: tail
translate([-18.29918920993805,3.8204633444547653,-0.022211763862287633])
rotate([-0.03225921756317605, 0.06588269045209724, 94.89455426434833])
cube([1.9065870717168263,1.35996676050132,0.1350036438088867],center=true);
//gt label: engine
translate([0.4880200093612075,-2.885601185262203,-4.470735639333725])
rotate([-3.2670617126984935, -80.98235340254361, -88.4849278389839])
cube([4.582867138087751,2.5652199424803266,0.7969965087249888],center=true);
//gt label: engine
translate([0.48188690561801206,-2.8740322217345238,4.474218785762787])
rotate([176.95603396313686, -81.0974516047518, 91.15791240974234])
cube([4.590496048331262,2.5631251372396955,0.7960271183401371],center=true);
//gt label: body
translate([-14.301597625017164,-0.6934788310900333,-0.03058212809264662])
rotate([-128.50664852923367, 0.6251240203599325, -9.504609084128793])
cube([3.204482421278968,2.29870596900584,2.084826435893789],center=true);
```

```
//gt label: wing
translate([0.14538773568347096,-2.3451469652354717,-9.795063436031342])
rotate([-138.12449044434152, 80.1568701146726, -48.521086282423894])
cube([5.146000124514106,2.927572280168537,0.5640799924731289],center=true);
//gt label: tail
translate([-3.2276695221662526,-1.5527412947267292,14.28232640028])
rotate([-105.93359310550335, 63.28230851015245, -11.98841689226413])
cube([8.033440411090854,1.4101956784725238,0.2838211390189947],center=true);
```

Airplane^{Cube}(partial) Question: 9

The following code describes a model airplane.

The airplane is consist of four parts, namely wing, body, tail, and engine.

Please annotate the following code to classify every code block. Block is defined with the 'code' sentence.

Here are an annotation example, please comment the given code following the structure of example.

Notice 1, all annotation should start with '//gt label:', and you should replace the placeholder *** with your prediction

Notice 2, you should only predict parts from wing, body, tail, and engine.

Task:

```
//gt label: ***
translate([-1.25363377854228,-1.992645375430584,14.331333041191101])
rotate([-65.03958423942369, -83.22311657857922, 154.3610847499535])
cube([4.595642089843752,3.310050237923865,0.38159024203196207],center=true);

//gt label: ***
translate([-0.44552055187523365,-2.1844007819890976,9.866967871785164])
rotate([89.09857333755045, -3.7221445943485123, -0.5785436378204852])
cube([4.114125370979309,3.3347850851714647,0.3903822670690801],center=true);
//gt label: ***
translate([-1.2532225623726845,-2.019860427826643,5.814606472849846])
rotate([-27.956041599082944, -88.98093705785995, 119.3737218433035])
cube([3.563234210014345,1.6704856790602218,0.3831672878004618],center=true);
//gt label: ***
translate([-18.74084234237671,-0.7481788797304034,-0.018264323298353674])
rotate([-90.3367547922255, 0.43941194456662264, -99.63211956933394])
cube([3.973097689449797,3.7492879107594534,2.205704525113123],center=true);
//gt label: ***
translate([1.5317558497190475,-3.245669398456812,6.315561607480049])
rotate([-98.99188665652265, -87.27987052351041, -170.13743604175312])
cube([4.055972397327425,3.1934785470366487,1.0127947945147766],center=true);
//gt label: ***
translate([-15.861476808786392,2.865815069526434,4.376514069736004])
rotate([-133.09915450770217, 78.93165406355163, -41.339716660841084])
cube([2.700395323336145,1.9595001637935963,0.22765314904973308],center=true);
//gt label: ***
translate([-12.366350814700127,-1.2520739436149593,-0.11220551561564213])
rotate([-103.72396532612704, 1.6194972180467142, -11.276210438047501])
cube([8.875710293650632,6.459756493568821,6.458946354687616],center=true);
//gt label: ***
```

```

translate([-15.94958320260048,2.9519770480692387,-4.418304860591888])
rotate([30.725227974659525, 79.88779494462318, 121.69880396065606])
cube([2.6238515414297883,1.9309438951313895,0.2226733253337557],center=true);
//gt label: ***
translate([-16.244198381900787,3.9770762622356415,0.020410927536431714])
rotate([0.06403017678452493, -0.03616582926434156, 96.26688212727105])
cube([3.3333526924252554,3.012598548084502,0.8539620880037552],center=true);
//gt label: ***
translate([-0.6478673359379171,-2.020597625523805,-0.02491513849236071])
rotate([89.93857628703189, 0.0425459403879334, -0.3141172142512432])
cube([13.400581404566768,6.837305389344693,6.3146010786294955],center=true);
//gt label: ***
translate([11.498518735170364,-2.830627914518118,-0.0202592762070708])
rotate([90.36767205214585, 0.4214890946225669, -2.104899036616709])
cube([10.211443677544596,6.481690071523192,5.458570308983333],center=true);
//gt label: ***
translate([17.7198526263237,-2.0364367216825485,-0.012089737938367737])
rotate([-58.44085635399219, -89.6686644536583, -120.91141326043417])
cube([1.8085639551281938,0.9368238877505299,0.4937154147774409],center=true);
//gt label: ***
translate([-1.2449732422828674,-1.9946955144405367,-5.819782018661499])
rotate([-164.40473879540548, 89.09340782190257, 107.06671287748098])
cube([3.559908829629422,1.6676128003746284,0.3743273438885852],center=true);
//gt label: ***
translate([1.5379204042255878,-3.227167949080467,-6.3172900676727295])
rotate([97.1262167923495, 87.25562385375517, -171.83780961415437])
cube([4.067838452756413,3.185176160186539,1.0079878475517063],center=true);
//gt label: ***
translate([-0.45887780375778675,-2.1787054277956486,-9.841369614005089])
rotate([-88.88397617834991, 3.8253918632044974, -0.9102185858638672])
cube([4.128761962056161,3.3460956811904916,0.3965248214080952],center=true);
//gt label: ***
translate([-1.266733380034566,-1.9144604168832302,-14.349747002124786])
rotate([66.30480939509344, 82.91899031387888, 155.6666353114684])
cube([4.616140201687818,3.2956336997449456,0.3755966690369005],center=true);

```

Airplane^{Cube}(partial) Answer: 9

```

//gt label: wing
translate([-1.25363377854228,-1.992645375430584,14.331333041191101])
rotate([-65.03958423942369, -83.22311657857922, 154.3610847499535])
cube([4.595642089843752,3.310050237923865,0.38159024203196207],center=true);

//gt label: wing
translate([-0.44552055187523365,-2.1844007819890976,9.866967871785164])
rotate([89.09857333755045, -3.7221445943485123, -0.5785436378204852])
cube([4.114125370979309,3.3347850851714647,0.3903822670690801],center=true);

//gt label: tail
translate([-1.2532225623726845,-2.019860427826643,5.814606472849846])
rotate([-27.956041599082944, -88.98093705785995, 119.3737218433035])
cube([3.563234210014345,1.6704856790602218,0.3831672878004618],center=true);

//gt label: engine
translate([-18.74084234237671,-0.7481788797304034,-0.018264323298353674])
rotate([-90.3367547922255, 0.43941194456662264, -99.63211956933394])

```

```

cube([3.973097689449797,3.7492879107594534,2.205704525113123],center=true);

//gt label: body
translate([1.5317558497190475,-3.245669398456812,6.315561607480049])
rotate([-98.99188665652265, -87.27987052351041, -170.13743604175312])
cube([4.055972397327425,3.1934785470366487,1.0127947945147766],center=true);

//gt label: tail
translate([-15.861476808786392,2.865815069526434,4.376514069736004])
rotate([-133.09915450770217, 78.93165406355163, -41.339716660841084])
cube([2.700395323336145,1.9595001637935963,0.22765314904973308],center=true);

//gt label: body
translate([-12.366350814700127,-1.2520739436149593,-0.11220551561564213])
rotate([-103.72396532612704, 1.6194972180467142, -11.276210438047501])
cube([8.875710293650632,6.459756493568821,6.458946354687616],center=true);

//gt label: tail
translate([-15.94958320260048,2.9519770480692387,-4.418304860591888])
rotate([30.725227974659525, 79.88779494462318, 121.69880396065606])
cube([2.6238515414297883,1.9309438951313895,0.2226733253337557],center=true);

//gt label: body
translate([-16.244198381900787,3.9770762622356415,0.020410927536431714])
rotate([0.06403017678452493, -0.03616582926434156, 96.26688212727105])
cube([3.3333526924252554,3.012598548084502,0.8539620880037552],center=true);

//gt label: body
translate([-0.6478673359379171,-2.020597625523805,-0.02491513849236071])
rotate([89.93857628703189, 0.0425459403879334, -0.3141172142512432])
cube([13.400581404566768,6.837305389344693,6.3146010786294955],center=true);

//gt label: engine
translate([11.498518735170364,-2.830627914518118,-0.0202592762070708])
rotate([90.36767205214585, 0.4214890946225669, -2.104899036616709])
cube([10.211443677544596,6.481690071523192,5.458570308983333],center=true);

//gt label: wing
translate([17.7198526263237,-2.0364367216825485,-0.012089737938367737])
rotate([-58.44085635399219, -89.6686644536583, -120.91141326043417])
cube([1.8085639551281938,0.9368238877505299,0.4937154147774409],center=true);

//gt label: tail
translate([-1.2449732422828674,-1.9946955144405367,-5.819782018661499])
rotate([-164.40473879540548, 89.09340782190257, 107.06671287748098])
cube([3.559908829629422,1.6676128003746284,0.3743273438885852],center=true);

//gt label: body
translate([1.5379204042255878,-3.227167949080467,-6.3172900676727295])
rotate([97.1262167923495, 87.25562385375517, -171.83780961415437])
cube([4.067838452756413,3.185176160186539,1.0079878475517063],center=true);

//gt label: wing
translate([-0.45887780375778675,-2.1787054277956486,-9.841369614005089])
rotate([-88.88397617834991, 3.8253918632044974, -0.9102185858638672])
cube([4.128761962056161,3.3460956811904916,0.3965248214080952],center=true);

//gt label: wing

```

```

translate([-1.266733380034566,-1.9144604168832302,-14.349747002124786])
rotate([66.30480939509344, 82.91899031387888, 155.6666353114684])
cube([4.616140201687818,3.2956336997449456,0.3755966690369005],center=true);

```

Airplane^{Ellip} Question: 0

The following code describes a model airplane.

The airplane is consist of four parts, namely wing, body, tail, and engine.

Please annotate the following code to classify every code block. Block is defined with the 'code' sentence.

Here are an annotation example, please comment the given code following the structure of example.

Notice 1, all annotation should start with '//gt label:'.add()

Notice 2, the labels given in the example program have nothing to do with what you will predict for the task program. Please use the metioned parts to label.

Please think step by step

Example:

```

$vpf=1;
$fn=16;
//gt label: body
color([0.983240378920939,0.004446877803519933,0.8468058652462592])
translate([0.24157473412544833,-1.557145688844764,-2.66435936741207])
rotate([88.68075848431147, -0.00021856383221735182, -0.006886489023197046])
scale([2.561554879597996,16.83919675972151,2.807686834231667]) sphere(r=1);
//gt label: wing
color([0.0,0.5,1.0])
translate([-6.39918459498364,-2.38746900273406,-0.7876720522408901])
rotate([104.62790571647503, -0.8680532723978376, 87.69025106314312])
scale([0.926623315266941,2.7267785985832633,11.099499528822692]) sphere(r=1);
//gt label: wing
color([0.0,0.5,1.0])
translate([7.129291283047718,-2.374162492544755,-0.7275716523113459])
rotate([0.9798473109783928, -14.63333799508122, 2.0680431178963024])
scale([10.82466341879057,0.9289916766726453,2.702962428979252]) sphere(r=1);
//gt label: engine
color([0.342262306440579,0.9654529077171228,0.6951161119283671])
translate([-2.130916471714559,-0.8171229906704115,5.754778987687567])
rotate([-0.380166293278613, 1.340017663840917, 166.8191922153544])
scale([1.9273767166811488,1.4683644732703334,3.8095413018827857]) sphere(r=1);
//gt label: engine
color([0.342262306440579,0.9654529077171228,0.6951161119283671])
translate([2.453267687688703,-0.8514563917465833,5.671246544174527])
rotate([0.5324532594958655, 4.243010806399205, 13.125879425433132])
scale([2.0789293977229493,1.4903552425296411,3.8719297103259875]) sphere(r=1);
//gt label: tail
color([0.9694379422232852,0.567936650505983,0.051701624423748926])
translate([0.24023378956253116,1.6149782130251762,13.543188831080561])
rotate([90.00648032169254, -38.72605478442989, 90.02275117607512])
scale([4.712729544743248,3.0583757421244746,0.9260936275772427]) sphere(r=1);
//gt label: body
color([0.983240378920939,0.004446877803519933,0.8468058652462592])
translate([0.24153832143739515,-1.6049332106890888,-10.444992975048399])
rotate([-0.0005414635463752507, 5.491376383584306, 89.98859039186813])
scale([2.7241349706183313,2.4907823328090752,9.354606724303702]) sphere(r=1);

```



```

//gt label: body
color ([0.983240378920939,0.004446877803519933,0.8468058652462592])
translate ([0.24154224109066572,-1.6007473773282508,-10.386243073836617])
rotate ([179.9981336585595, -84.48401150562663, 89.99408795583138])
scale ([9.424663756204689,2.4797944756953614,2.710601476871449]) sphere (r=1);
//gt label: body
color ([0.03531985660368242,0.10997811473592722,0.3586572056561802])
translate ([0.24265388593725537,-3.794661941735641,-13.633564632871877])
rotate ([-89.94175331432587, -8.223475462005972, 89.6715721613241])
scale ([2.0578505714302477,1.1691268290514532,1.0548472890387413]) sphere (r=1);
//gt label: engine
color ([0.342262306440579,0.9654529077171228,0.6951161119283671])
translate ([-2.1495576300050905,-4.328589627276297,-1.1252472015178723])
rotate ([-4.877693565493809, 7.899950628418712, -5.9580767196236835])
scale ([1.1052687287978504,1.5207928645869961,1.1745780868374784]) sphere (r=1);
//gt label: engine
color ([0.342262306440579,0.9654529077171228,0.6951161119283671])
translate ([2.633038308957349,-4.3289049811985185,-1.1256090567811676])
rotate ([82.25044946008136, 4.900259212390922, 95.22509675203334])
scale ([1.5205441447703736,1.1742809058531471,1.1052286414348562]) sphere (r=1);
//gt label: body
color ([0.983240378920939,0.004446877803519933,0.8468058652462592])
translate ([0.2415471406572539,-1.5457576707653378,-0.5452790014121844])
rotate ([-2.8912241736266164, -0.00042186994502188763, -0.006573834493923046])
scale ([2.571353834608327,2.71878802905912,15.465939822404282]) sphere (r=1);
//gt label: tail
color ([0.9694379422232852,0.567936650505983,0.051701624423748926])
translate ([0.24657244794070723,5.287554536176765,17.122698866802715])
rotate ([90.56655233914738, 0.012025533452469409, 0.007279213225184516])
scale ([4.196944508863532,2.2381783179614856,0.8506504575843397]) sphere (r=1);
//gt label: body
color ([0.03531985660368242,0.10997811473592722,0.3586572056561802])
translate ([-1.26775572805301,-2.855904270773349,-3.3077458648577984])
rotate ([-28.317693154913574, -2.8047548504272424, 76.1558961634586])
scale ([1.1072463720389036,2.356197652609452,6.213608967221302]) sphere (r=1);
//gt label: wing
color ([0.0,0.5,1.0])
translate ([2.3268171788557717,-2.6616952503504963,-1.757947566068691])
rotate ([-166.02322816461108, -0.40721552992694054, -87.52926026733635])
scale ([1.0341587354955466,7.321289440859919,3.6386169817136684]) sphere (r=1);
//gt label: wing
color ([0.0,0.5,1.0])
translate ([-0.3055957672388658,-2.6216447677301327,-1.2306152316539185])
rotate ([88.59951820941549, -0.29403556611965814, 89.62164324290538])
scale ([1.1225699001680252,3.9462117721205177,8.110738966775978]) sphere (r=1);
//gt label: wing
color ([0.03531985660368242,0.10997811473592722,0.3586572056561802])
translate ([1.8301643269217533,-2.848327581001365,-1.1353052990592045])
rotate ([-0.05059205012642036, -31.34769503992146, 10.28144408080884])
scale ([3.6129361261492194,1.0977951971733053,4.56920075027839]) sphere (r=1);
//gt label: tail
color ([0.9694379422232852,0.567936650505983,0.051701624423748926])
translate ([-1.1446400424060614,5.304295731627423,17.39638188610906])
rotate ([-89.50391814156252, -77.04482763856267, -0.8576004907138622])
scale ([2.0731409606726277,5.385071233562802,0.8270332103838092]) sphere (r=1);
//gt label: tail
color ([0.9694379422232852,0.567936650505983,0.051701624423748926])
translate ([1.4655062442888385,5.301312162824299,17.384685640749726])

```

```
rotate([-0.03728314029126139, -10.751022418499065, 0.4378785887644302])
scale([5.371324653210848,0.8296290007622347,2.0656774063473162]) sphere(r=1);
```

Task:

```
//gt label: ***
translate([-18.138041645288467,-1.3327325507998466,-3.4679336845874786])
rotate([112.54633972019874, -68.63369964883897, -22.8044706787177])
cube([5.48646703362465,1.4016167912632265,0.1192448392976122],center=true);
//gt label: ***
translate([-18.25397551059723,4.169581979513168,0.019402902398724102])
rotate([179.95081089499456, -0.15121620496685415, -83.39861676374602])
cube([2.8596763312816647,1.5816534589976101,0.14219020726159254],center=true);
//gt label: ***
translate([-3.0519824847579002,-2.776682786643505,14.160122871398926])
rotate([-110.44930620797955, 70.48855763975978, -20.91218484869099])
cube([6.701969578862192,1.3487752061337308,0.2984280721284608],center=true);

//gt label: ***
translate([18.815257102251053,-3.3718490414321423,0.0193661564844661])
rotate([90.08739449602585, -0.09800786469819125, -90.05765042322027])
cube([1.7534650862217243,1.6840452607721097,1.1653851903975494],center=true);
//gt label: ***
translate([0.15211068210192036,-3.940819166600704,-3.8314110785722737])
rotate([-167.92164333392125, -83.47423338843586, -101.97831115012755])
cube([4.199914038181307,2.3692896775901326,0.8531630644574768],center=true);
//gt label: ***
translate([3.5951648280024533,-4.504960626363754,-3.9638251438736916])
rotate([-177.33952817471692, -83.04299989332627, 83.71547640244957])
cube([4.381989985704424,3.589124232530597,1.4678625483065875],center=true);
//gt label: ***
translate([-5.830232277512551,-2.8542086109519,0.006996251759119387])
rotate([179.99371823902078, 0.02610469870305648, -2.494284544592666])
cube([13.805754929780964,3.4458296373486608,3.3688312023878204],center=true);
//gt label: ***
translate([-18.23992818593979,-1.3331068865954876,3.3869865909218793])
rotate([-115.31114244967323, 72.19267551449406, -26.788785586062886])
cube([5.484133325517179,1.4128672517836138,0.12016741209665482],center=true);
//gt label: ***
translate([9.9213844537735,-3.030048292130232,0.015458189445780597])
rotate([179.99111833310496, -0.3136541546803373, -0.3479469329746344])
cube([14.514621943235401,3.5595400258898775,3.3572911284863993],center=true);
//gt label: ***
translate([3.59521072357893,-4.506650976836681,3.962673246860504])
rotate([3.198273128481802, -82.95772282547932, -96.84383542482172])
cube([4.37215685844422,3.598536513745792,1.4704217389226009],center=true);
//gt label: ***
translate([0.16497560660354793,-3.9487890154123306,3.8413323089480405])
rotate([167.5062758456813, 83.53026105728806, -102.1632179658437])
cube([4.192828088998795,2.3708329163491735,0.8533036196604387],center=true);
//gt label: ***
translate([-15.074674189090729,-1.7249471321702003,0.004567506257444525])
rotate([-130.32339074715486, 0.9322074454637863, -10.272641000509907])
cube([2.6874679327011197,2.552479617297667,2.4472558125853663],center=true);
//gt label: ***
translate([-0.7638943241909145,-3.4050163812935352,8.457721248269081])
rotate([-110.78278713957445, 76.2917353364514, -19.769320414566955])
```

```

cube([4.614250287413598,2.5918871164321904,0.5365997087210455],center=true);
//gt label: ***
translate([-0.7694108085706831,-3.401900604367256,-8.452712073922157])
rotate([110.30140899253772, -76.32257784064667, -19.43716380306151])
cube([4.622301273047927,2.590262126177552,0.5367324780672811],center=true);
//gt label: ***
translate([-16.979714334011078,0.22976583102717996,-0.0050979305524378946])
rotate([0.21886454615984383, 0.6345535921042724, 73.02517312896761])
cube([5.4412898048758525,2.15925000607968,0.457190065644682],center=true);
//gt label: ***
translate([-3.0432422459125523,-2.769499309360981,-14.141722023487093])
rotate([110.28041958843485, -70.41431045187099, -20.731363741013677])
cube([6.709006354212766,1.3475078530609612,0.29589290497824705],center=true);

```

Airplane^{Ellip} Answer: 0

```

//gt label: wing
translate([-18.138041645288467,-1.3327325507998466,-3.4679336845874786])
rotate([112.54633972019874, -68.63369964883897, -22.8044706787177])
cube([5.48646703362465,1.4016167912632265,0.1192448392976122],center=true);
//gt label: wing
translate([-18.25397551059723,4.169581979513168,0.019402902398724102])
rotate([179.95081089499456, -0.15121620496685415, -83.39861676374602])
cube([2.8596763312816647,1.5816534589976101,0.14219020726159254],center=true);
//gt label: tail
translate([-3.0519824847579002,-2.776682786643505,14.160122871398926])
rotate([-110.44930620797955, 70.48855763975978, -20.91218484869099])
cube([6.701969578862192,1.3487752061337308,0.2984280721284608],center=true);

//gt label: body
translate([18.815257102251053,-3.3718490414321423,0.0193661564844661])
rotate([90.08739449602585, -0.09800786469819125, -90.05765042322027])
cube([1.7534650862217243,1.6840452607721097,1.1653851903975494],center=true);
//gt label: tail
translate([0.15211068210192036,-3.940819166600704,-3.8314110785722737])
rotate([-167.92164333392125, -83.47423338843586, -101.97831115012755])
cube([4.199914038181307,2.3692896775901326,0.8531630644574768],center=true);
//gt label: body
translate([3.5951648280024533,-4.504960626363754,-3.9638251438736916])
rotate([-177.33952817471692, -83.04299989332627, 83.71547640244957])
cube([4.381989985704424,3.589124232530597,1.4678625483065875],center=true);
//gt label: body
translate([-5.830232277512551,-2.8542086109519,0.006996251759119387])
rotate([179.99371823902078, 0.02610469870305648, -2.494284544592666])
cube([13.805754929780964,3.4458296373486608,3.3688312023878204],center=true);
//gt label: wing
translate([-18.23992818593979,-1.3331068865954876,3.3869865909218793])
rotate([-115.31114244967323, 72.19267551449406, -26.788785586062886])
cube([5.484133325517179,1.4128672517836138,0.12016741209665482],center=true);
//gt label: body
translate([9.9213844537735,-3.030048292130232,0.015458189445780597])
rotate([179.99111833310496, -0.3136541546803373, -0.3479469329746344])
cube([14.514621943235401,3.5595400258898775,3.3572911284863993],center=true);
//gt label: body
translate([3.59521072357893,-4.506650976836681,3.962673246860504])
rotate([3.198273128481802, -82.95772282547932, -96.84383542482172])

```

```

cube([4.37215685844422,3.598536513745792,1.4704217389226009],center=true);
//gt label: tail
translate([0.16497560660354793,-3.9487890154123306,3.8413323089480405])
rotate([167.5062758456813, 83.53026105728806, -102.1632179658437])
cube([4.192828088998795,2.3708329163491735,0.8533036196604387],center=true);
//gt label: body
translate([-15.074674189090729,-1.7249471321702003,0.004567506257444525])
rotate([-130.32339074715486, 0.9322074454637863, -10.272641000509907])
cube([2.6874679327011197,2.552479617297667,2.4472558125853663],center=true);
//gt label: engine
translate([-0.7638943241909145,-3.4050163812935352,8.457721248269081])
rotate([-110.78278713957445, 76.2917353364514, -19.769320414566955])
cube([4.614250287413598,2.5918871164321904,0.5365997087210455],center=true);
//gt label: engine
translate([-0.7694108085706831,-3.401900604367256,-8.452712073922157])
rotate([110.30140899253772, -76.32257784064667, -19.43716380306151])
cube([4.622301273047927,2.590262126177552,0.5367324780672811],center=true);
//gt label: tail
translate([-16.979714334011078,0.22976583102717996,-0.0050979305524378946])
rotate([0.21886454615984383, 0.6345535921042724, 73.02517312896761])
cube([5.4412898048758525,2.15925000607968,0.457190065644682],center=true);
//gt label: tail
translate([-3.0432422459125523,-2.769499309360981,-14.141722023487093])
rotate([110.28041958843485, -70.41431045187099, -20.731363741013677])
cube([6.709006354212766,1.3475078530609612,0.29589290497824705],center=true);

```

Airplane^{Ellip} Question: 1

The following code describes a model airplane.

The airplane is consist of four parts, namely wing, body, tail, and engine.

Please annotate the following code to classify every code block. Block is defined with the 'code' sentence.

Here are an annotation example, please comment the given code following the structure of example.

Notice 1, all annotation should start with '//gt label:'.add()

Notice 2, the labels given in the example program have nothing to do with what you will predict for the task program. Please use the metioned parts to label.

Please think step by step

Example:

```

$vpf=1;
$fn=16;
//gt label: body
color([0.983240378920939,0.004446877803519933,0.8468058652462592])
translate([0.24157473412544833,-1.557145688844764,-2.66435936741207])
rotate([88.68075848431147, -0.00021856383221735182, -0.006886489023197046])
scale([2.561554879597996,16.83919675972151,2.807686834231667]) sphere(r=1);
//gt label: wing
color([0.0,0.5,1.0])
translate([-6.39918459498364,-2.38746900273406,-0.7876720522408901])
rotate([104.62790571647503, -0.8680532723978376, 87.69025106314312])
scale([0.926623315266941,2.7267785985832633,11.099499528822692]) sphere(r=1);
//gt label: wing
color([0.0,0.5,1.0])
translate([7.129291283047718,-2.374162492544755,-0.7275716523113459])

```

```

rotate([0.9798473109783928, -14.63333799508122, 2.0680431178963024])
scale([10.82466341879057,0.9289916766726453,2.702962428979252]) sphere(r=1);
//gt label: engine
color([0.342262306440579,0.9654529077171228,0.6951161119283671])
translate([-2.130916471714559,-0.8171229906704115,5.754778987687567])
rotate([-0.380166293278613, 1.340017663840917, 166.8191922153544])
scale([1.9273767166811488,1.4683644732703334,3.8095413018827857]) sphere(r=1);
//gt label: engine
color([0.342262306440579,0.9654529077171228,0.6951161119283671])
translate([2.453267687688703,-0.8514563917465833,5.671246544174527])
rotate([0.5324532594958655, 4.243010806399205, 13.125879425433132])
scale([2.0789293977229493,1.4903552425296411,3.8719297103259875]) sphere(r=1);
//gt label: tail
color([0.9694379422232852,0.567936650505983,0.051701624423748926])
translate([0.24023378956253116,1.6149782130251762,13.543188831080561])
rotate([90.00648032169254, -38.72605478442989, 90.02275117607512])
scale([4.712729544743248,3.0583757421244746,0.9260936275772427]) sphere(r=1);
//gt label: body
color([0.983240378920939,0.004446877803519933,0.8468058652462592])
translate([0.24153832143739515,-1.6049332106890888,-10.444992975048399])
rotate([-0.0005414635463752507, 5.491376383584306, 89.98859039186813])
scale([2.7241349706183313,2.4907823328090752,9.354606724303702]) sphere(r=1);
//gt label: body
color([0.983240378920939,0.004446877803519933,0.8468058652462592])
translate([0.24154224109066572,-1.6007473773282508,-10.386243073836617])
rotate([179.9981336585595, -84.48401150562663, 89.99408795583138])
scale([9.424663756204689,2.4797944756953614,2.710601476871449]) sphere(r=1);
//gt label: body
color([0.03531985660368242,0.10997811473592722,0.3586572056561802])
translate([0.24265388593725537,-3.794661941735641,-13.633564632871877])
rotate([-89.94175331432587, -8.223475462005972, 89.6715721613241])
scale([2.0578505714302477,1.1691268290514532,1.0548472890387413]) sphere(r=1);
//gt label: engine
color([0.342262306440579,0.9654529077171228,0.6951161119283671])
translate([-2.1495576300050905,-4.328589627276297,-1.1252472015178723])
rotate([-4.877693565493809, 7.899950628418712, -5.9580767196236835])
scale([1.1052687287978504,1.5207928645869961,1.1745780868374784]) sphere(r=1);
//gt label: engine
color([0.342262306440579,0.9654529077171228,0.6951161119283671])
translate([2.633038308957349,-4.3289049811985185,-1.1256090567811676])
rotate([82.25044946008136, 4.900259212390922, 95.22509675203334])
scale([1.5205441447703736,1.1742809058531471,1.1052286414348562]) sphere(r=1);
//gt label: body
color([0.983240378920939,0.004446877803519933,0.8468058652462592])
translate([0.2415471406572539,-1.5457576707653378,-0.5452790014121844])
rotate([-2.8912241736266164, -0.00042186994502188763, -0.006573834493923046])
scale([2.571353834608327,2.71878802905912,15.465939822404282]) sphere(r=1);
//gt label: tail
color([0.9694379422232852,0.567936650505983,0.051701624423748926])
translate([0.24657244794070723,5.287554536176765,17.122698866802715])
rotate([90.56655233914738, 0.012025533452469409, 0.007279213225184516])
scale([4.196944508863532,2.2381783179614856,0.8506504575843397]) sphere(r=1);
//gt label: body
color([0.03531985660368242,0.10997811473592722,0.3586572056561802])
translate([-1.26775572805301,-2.855904270773349,-3.3077458648577984])
rotate([-28.317693154913574, -2.8047548504272424, 76.1558961634586])
scale([1.1072463720389036,2.356197652609452,6.213608967221302]) sphere(r=1);
//gt label: wing

```

```

color ([0.0 ,0.5 ,1.0])
translate ([2.3268171788557717, -2.6616952503504963, -1.757947566068691])
rotate ([-166.02322816461108, -0.40721552992694054, -87.52926026733635])
scale ([1.0341587354955466, 7.321289440859919, 3.6386169817136684]) sphere (r=1);
//gt label: wing
color ([0.0 ,0.5 ,1.0])
translate ([-0.3055957672388658, -2.6216447677301327, -1.2306152316539185])
rotate ([88.59951820941549, -0.29403556611965814, 89.62164324290538])
scale ([1.1225699001680252, 3.9462117721205177, 8.110738966775978]) sphere (r=1);
//gt label: wing
color ([0.03531985660368242, 0.10997811473592722, 0.3586572056561802])
translate ([1.8301643269217533, -2.848327581001365, -1.1353052990592045])
rotate ([-0.05059205012642036, -31.34769503992146, 10.28144408080884])
scale ([3.6129361261492194, 1.0977951971733053, 4.56920075027839]) sphere (r=1);
//gt label: tail
color ([0.9694379422232852, 0.567936650505983, 0.051701624423748926])
translate ([-1.1446400424060614, 5.304295731627423, 17.39638188610906])
rotate ([-89.50391814156252, -77.04482763856267, -0.8576004907138622])
scale ([2.0731409606726277, 5.385071233562802, 0.8270332103838092]) sphere (r=1);
//gt label: tail
color ([0.9694379422232852, 0.567936650505983, 0.051701624423748926])
translate ([1.4655062442888385, 5.301312162824299, 17.384685640749726])
rotate ([-0.03728314029126139, -10.751022418499065, 0.4378785887644302])
scale ([5.371324653210848, 0.8296290007622347, 2.0656774063473162]) sphere (r=1);

```

Task:

```

//gt label: ***
translate ([-1.2090794183313844, -2.39425728097558, -8.642287850379944])
rotate ([115.2356276748709, -74.36285237906799, -23.796308287756684])
cube ([4.549195356667054, 2.962181642651576, 0.5826913658529642], center=true);
//gt label: ***
translate ([19.155228585004807, -2.840406745672226, 0.014593831292586401])
rotate ([45.898682719080014, 89.84470967418689, -134.61131681147813])
cube ([1.651420677080801, 1.6406363435090274, 1.2112336419523233], center=true);
//gt label: ***
translate ([3.2858493365347385, -3.7494206801056866, -4.478634186089039])
rotate ([-174.4424970819488, -84.32345993974258, 80.97624640896319])
cube ([4.700984731316581, 3.9289867132902314, 1.4795199222862805], center=true);
//gt label: ***
translate ([-5.481415241956711, -2.4164217710494995, 0.005415466730482876])
rotate ([-179.91672024987184, 0.10720704194893887, -1.7747561875698454])
cube ([13.972000181674963, 3.3922076225281037, 3.3860469609499253], center=true);
//gt label: ***
translate ([-3.83928831666708, -1.6292880475521088, 13.84933277964592])
rotate ([-109.57229119755522, 68.75098238431028, -19.78820746926253])
cube ([6.254601627588276, 1.677151499316103, 0.32551002223044884], center=true);

//gt label: ***
translate ([10.233398154377937, -2.542352061718702, 0.016752978699514757])
rotate ([0.07293735511468132, -0.32311898947117834, 0.14980733420051667])
cube ([14.565475881099708, 3.5536899790167817, 3.2618002593517312], center=true);
//gt label: ***
translate ([-3.8126922398805623, -1.661948999390006, -13.838217854499819])
rotate ([108.9185810407197, -68.89575497242774, -19.104765967933826])
cube ([6.259281337261205, 1.6732768062502206, 0.32410754356534577], center=true);
//gt label: ***

```

```

translate ([3.2827888801693916, -3.7463440373539925, 4.486278258264065])
rotate ([5.763582958161343, -84.35247507826415, -99.1976935652948])
cube ([4.696845114231117, 3.9415006339550103, 1.4838621765375144], center=true);
//gt label: ***
translate ([-18.57037141919136, 3.960353471338749, 0.010860398542718032])
rotate ([0.0583913655830972, 0.29460563774497545, 97.54395652116982])
cube ([2.8469880484044787, 1.7371205240488408, 0.16724910237826446], center=true);
//gt label: ***
translate ([-1.2060251086950302, -2.3856407962739468, 8.632851392030716])
rotate ([-116.06612268142278, 74.25147638894713, -24.488883650841263])
cube ([4.538758210837845, 2.9628637246787597, 0.5826405528932886], center=true);
//gt label: ***
translate ([-17.15000495314598, 0.1767136692069471, -0.014859895018162206])
rotate ([0.23945260788361308, 0.9662714921344305, 65.85160814176284])
cube ([5.703376904129986, 2.284846119582665, 0.47554199583828477], center=true);
//gt label: ***
translate ([-14.985372871160505, -1.6932213027030232, 0.017578401166247384])
rotate ([-129.11672595006985, 1.4365185575016923, -5.91875990135237])
cube ([2.767746057361449, 2.6511936262250693, 2.5154695473611732], center=true);
//gt label: ***
translate ([-0.21375198848545557, -3.389348573982716, -4.030495434999466])
rotate ([5.535275690634281, 80.51945456963035, 95.47307284299437])
cube ([4.377156607806683, 2.46059462428093, 0.8274273760616797], center=true);
//gt label: ***
translate ([-0.22363933501765132, -3.3783567883074284, 4.0274179726839066])
rotate ([-5.691028493805405, -80.30438112928186, 95.55512198454505])
cube ([4.3613525480031985, 2.4688906595110898, 0.8301708148792393], center=true);
//gt label: ***
translate ([-17.88649618625641, -1.6755205672234297, 3.5308007895946503])
rotate ([-121.40486008933163, 72.67759078536278, -32.405874641961816])
cube ([5.450109541416168, 1.647915402427319, 0.1307015737984354], center=true);
//gt label: ***
translate ([-17.7386337518692, -1.6821485850960014, -3.6005014181137085])
rotate ([115.54155105838161, -68.46903206821945, -25.373668594153667])
cube ([5.481317713856701, 1.6346948128193666, 0.12983383494430006], center=true);

```

Airplane^{Ellip} Answer: 1

```

//gt label: wing
translate ([-1.2090794183313844, -2.39425728097558, -8.642287850379944])
rotate ([115.2356276748709, -74.36285237906799, -23.796308287756684])
cube ([4.549195356667054, 2.962181642651576, 0.5826913658529642], center=true);
//gt label: engine
translate ([19.155228585004807, -2.840406745672226, 0.014593831292586401])
rotate ([45.898682719080014, 89.84470967418689, -134.61131681147813])
cube ([1.651420677080801, 1.6406363435090274, 1.2112336419523233], center=true);
//gt label: body
translate ([3.2858493365347385, -3.7494206801056866, -4.478634186089039])
rotate ([-174.4424970819488, -84.32345993974258, 80.97624640896319])
cube ([4.700984731316581, 3.9289867132902314, 1.4795199222862805], center=true);
//gt label: body
translate ([-5.481415241956711, -2.4164217710494995, 0.005415466730482876])
rotate ([-179.91672024987184, 0.10720704194893887, -1.7747561875698454])
cube ([13.972000181674963, 3.3922076225281037, 3.3860469609499253], center=true);
//gt label: tail
translate ([-3.83928831666708, -1.6292880475521088, 13.84933277964592])

```

```

rotate([-109.57229119755522, 68.75098238431028, -19.78820746926253])
cube([6.254601627588276,1.677151499316103,0.32551002223044884],center=true);

//gt label: body
translate([10.233398154377937,-2.542352061718702,0.016752978699514757])
rotate([0.07293735511468132, -0.32311898947117834, 0.14980733420051667])
cube([14.565475881099708,3.5536899790167817,3.2618002593517312],center=true);
//gt label: tail
translate([-3.8126922398805623,-1.661948999390006,-13.838217854499819])
rotate([108.9185810407197, -68.89575497242774, -19.104765967933826])
cube([6.259281337261205,1.6732768062502206,0.32410754356534577],center=true);
//gt label: body
translate([3.2827888801693916,-3.7463440373539925,4.486278258264065])
rotate([5.763582958161343, -84.35247507826415, -99.1976935652948])
cube([4.696845114231117,3.9415006339550103,1.4838621765375144],center=true);
//gt label: wing
translate([-18.57037141919136,3.960353471338749,0.010860398542718032])
rotate([0.0583913655830972, 0.29460563774497545, 97.54395652116982])
cube([2.8469880484044787,1.7371205240488408,0.16724910237826446],center=true);
//gt label: wing
translate([-1.2060251086950302,-2.3856407962739468,8.632851392030716])
rotate([-116.06612268142278, 74.25147638894713, -24.488883650841263])
cube([4.538758210837845,2.9628637246787597,0.5826405528932886],center=true);
//gt label: wing
translate([-17.15000495314598,0.1767136692069471,-0.014859895018162206])
rotate([0.23945260788361308, 0.9662714921344305, 65.85160814176284])
cube([5.703376904129986,2.284846119582665,0.47554199583828477],center=true);
//gt label: engine
translate([-14.985372871160505,-1.6932213027030232,0.017578401166247384])
rotate([-129.11672595006985, 1.4365185575016923, -5.91875990135237])
cube([2.767746057361449,2.6511936262250693,2.5154695473611732],center=true);
//gt label: wing
translate([-0.21375198848545557,-3.389348573982716,-4.030495434999466])
rotate([5.535275690634281, 80.51945456963035, 95.47307284299437])
cube([4.377156607806683,2.46059462428093,0.8274273760616797],center=true);
//gt label: wing
translate([-0.22363933501765132,-3.3783567883074284,4.0274179726839066])
rotate([-5.691028493805405, -80.30438112928186, 95.55512198454505])
cube([4.3613525480031985,2.4688906595110898,0.8301708148792393],center=true);
//gt label: tail
translate([-17.88649618625641,-1.6755205672234297,3.5308007895946503])
rotate([-121.40486008933163, 72.67759078536278, -32.405874641961816])
cube([5.450109541416168,1.647915402427319,0.1307015737984354],center=true);
//gt label: tail
translate([-17.7386337518692,-1.6821485850960014,-3.6005014181137085])
rotate([115.54155105838161, -68.46903206821945, -25.373668594153667])
cube([5.481317713856701,1.6346948128193666,0.12983383494430006],center=true);

```

Airplane^{Ellip} Question: 2

The following code describes a model airplane.

The airplane is consist of four parts, namely wing, body, tail, and engine.

Please annotate the following code to classify every code block. Block is defined with the 'code' sentence.

Here are an annotation example, please comment the given code following the structure

of example.

Notice 1, all annotation should start with '//gt label:'.add()

Notice 2, the labels given in the example program have nothing to do with what you will predict for the task program. Please use the metioned parts to label.

Please think step by step

Example:

```
$vpf=1;
$fn=16;
//gt label: body
color ([0.983240378920939,0.004446877803519933,0.8468058652462592])
translate ([0.24157473412544833,-1.557145688844764,-2.66435936741207])
rotate ([88.68075848431147,-0.00021856383221735182,-0.006886489023197046])
scale ([2.561554879597996,16.83919675972151,2.807686834231667]) sphere(r=1);
//gt label: wing
color ([0.0,0.5,1.0])
translate ([-6.39918459498364,-2.38746900273406,-0.7876720522408901])
rotate ([104.62790571647503,-0.8680532723978376,87.69025106314312])
scale ([0.926623315266941,2.7267785985832633,11.099499528822692]) sphere(r=1);
//gt label: wing
color ([0.0,0.5,1.0])
translate ([7.129291283047718,-2.374162492544755,-0.7275716523113459])
rotate ([0.9798473109783928,-14.63333799508122,2.0680431178963024])
scale ([10.82466341879057,0.9289916766726453,2.702962428979252]) sphere(r=1);
//gt label: engine
color ([0.342262306440579,0.9654529077171228,0.6951161119283671])
translate ([-2.130916471714559,-0.8171229906704115,5.754778987687567])
rotate ([-0.380166293278613,1.340017663840917,166.8191922153544])
scale ([1.9273767166811488,1.4683644732703334,3.8095413018827857]) sphere(r=1);
//gt label: engine
color ([0.342262306440579,0.9654529077171228,0.6951161119283671])
translate ([2.453267687688703,-0.8514563917465833,5.671246544174527])
rotate ([0.5324532594958655,4.243010806399205,13.125879425433132])
scale ([2.0789293977229493,1.4903552425296411,3.8719297103259875]) sphere(r=1);
//gt label: tail
color ([0.9694379422232852,0.567936650505983,0.051701624423748926])
translate ([0.24023378956253116,1.6149782130251762,13.543188831080561])
rotate ([90.00648032169254,-38.72605478442989,90.02275117607512])
scale ([4.712729544743248,3.0583757421244746,0.9260936275772427]) sphere(r=1);
//gt label: body
color ([0.983240378920939,0.004446877803519933,0.8468058652462592])
translate ([0.24153832143739515,-1.6049332106890888,-10.444992975048399])
rotate ([-0.0005414635463752507,5.491376383584306,89.98859039186813])
scale ([2.7241349706183313,2.4907823328090752,9.354606724303702]) sphere(r=1);
//gt label: body
color ([0.983240378920939,0.004446877803519933,0.8468058652462592])
translate ([0.24154224109066572,-1.6007473773282508,-10.386243073836617])
rotate ([179.9981336585595,-84.48401150562663,89.99408795583138])
scale ([9.424663756204689,2.4797944756953614,2.710601476871449]) sphere(r=1);
//gt label: body
color ([0.03531985660368242,0.10997811473592722,0.3586572056561802])
translate ([0.24265388593725537,-3.794661941735641,-13.633564632871877])
rotate ([-89.94175331432587,-8.223475462005972,89.6715721613241])
scale ([2.0578505714302477,1.1691268290514532,1.0548472890387413]) sphere(r=1);
//gt label: engine
color ([0.342262306440579,0.9654529077171228,0.6951161119283671])
translate ([-2.1495576300050905,-4.328589627276297,-1.1252472015178723])
rotate ([-4.877693565493809,7.899950628418712,-5.9580767196236835])
```

```

scale ([1.1052687287978504,1.5207928645869961,1.1745780868374784]) sphere (r=1);
//gt label: engine
color ([0.342262306440579,0.9654529077171228,0.6951161119283671])
translate ([2.633038308957349,-4.3289049811985185,-1.1256090567811676])
rotate ([82.25044946008136, 4.900259212390922, 95.22509675203334])
scale ([1.5205441447703736,1.1742809058531471,1.1052286414348562]) sphere (r=1);
//gt label: body
color ([0.983240378920939,0.004446877803519933,0.8468058652462592])
translate ([0.2415471406572539,-1.5457576707653378,-0.5452790014121844])
rotate ([-2.8912241736266164, -0.00042186994502188763, -0.006573834493923046])
scale ([2.571353834608327,2.71878802905912,15.465939822404282]) sphere (r=1);
//gt label: tail
color ([0.9694379422232852,0.567936650505983,0.051701624423748926])
translate ([0.24657244794070723,5.287554536176765,17.122698866802715])
rotate ([90.56655233914738, 0.012025533452469409, 0.007279213225184516])
scale ([4.196944508863532,2.2381783179614856,0.8506504575843397]) sphere (r=1);
//gt label: body
color ([0.03531985660368242,0.10997811473592722,0.3586572056561802])
translate ([-1.26775572805301,-2.855904270773349,-3.3077458648577984])
rotate ([-28.317693154913574, -2.8047548504272424, 76.1558961634586])
scale ([1.1072463720389036,2.356197652609452,6.213608967221302]) sphere (r=1);
//gt label: wing
color ([0.0,0.5,1.0])
translate ([2.3268171788557717,-2.6616952503504963,-1.757947566068691])
rotate ([-166.02322816461108, -0.40721552992694054, -87.52926026733635])
scale ([1.0341587354955466,7.321289440859919,3.6386169817136684]) sphere (r=1);
//gt label: wing
color ([0.0,0.5,1.0])
translate ([-0.3055957672388658,-2.6216447677301327,-1.2306152316539185])
rotate ([88.59951820941549, -0.29403556611965814, 89.62164324290538])
scale ([1.1225699001680252,3.9462117721205177,8.110738966775978]) sphere (r=1);
//gt label: wing
color ([0.03531985660368242,0.10997811473592722,0.3586572056561802])
translate ([1.8301643269217533,-2.848327581001365,-1.1353052990592045])
rotate ([-0.05059205012642036, -31.34769503992146, 10.28144408080884])
scale ([3.6129361261492194,1.0977951971733053,4.56920075027839]) sphere (r=1);
//gt label: tail
color ([0.9694379422232852,0.567936650505983,0.051701624423748926])
translate ([-1.1446400424060614,5.304295731627423,17.39638188610906])
rotate ([-89.50391814156252, -77.04482763856267, -0.8576004907138622])
scale ([2.0731409606726277,5.385071233562802,0.8270332103838092]) sphere (r=1);
//gt label: tail
color ([0.9694379422232852,0.567936650505983,0.051701624423748926])
translate ([1.4655062442888385,5.301312162824299,17.384685640749726])
rotate ([-0.03728314029126139, -10.751022418499065, 0.4378785887644302])
scale ([5.371324653210848,0.8296290007622347,2.0656774063473162]) sphere (r=1);

```

Task:

```

//gt label: ***
translate ([-1.5893350262194874,-4.188789688050747,4.360119923949242])
rotate ([-10.839169757964955, -86.65302178340283, 99.10954413665007])
cube ([5.5495791882276535,2.7453395910561103,0.743680293671789],center=true);
//gt label: ***
translate ([2.294098995625973,-4.355607815086842,4.279787912964821])
rotate ([-162.71192063282987, -83.86572783321868, -108.06174017839452])
cube ([5.190586857497699,4.237833209335811,1.4364818576723428],center=true);

```

```

//gt label: ***
translate([-1.5760746877640484,-4.198968671262264,-4.350411780178548])
rotate([13.201863020653578, 86.5395668647182, 101.40184615964846])
cube([5.524439476430418,2.7468611113727097,0.7459424436092397],center=true);
//gt label: ***
translate([17.794046103954315,-2.932734712958336,-0.0025601062225177884])
rotate([-153.01368703836872, 89.49457059464926, 26.33887855148037])
cube([1.3221963401883874,1.2848753482103545,0.9487679041922337],center=true);
//gt label: ***
translate([-14.217626750469208,-1.4404156617820263,-3.50570697337389])
rotate([91.76885955381205, -67.69119752320073, -0.4460848230136764])
cube([5.253285951912408,1.8261546641588369,0.12881031492725242],center=true);
//gt label: ***
translate([-3.303586132824421,-2.1400148421525955,-0.012198599069961402])
rotate([-179.8487821329813, 0.04566453422849723, -1.546757039779757])
cube([13.261167854070663,3.426635861396792,3.194976914674046],center=true);
//gt label: ***
translate([-12.712700963020325,-1.1528310086578129,-0.037956243613734876])
rotate([143.6986956534412, 0.46437753244110125, -9.39914650360689])
cube([3.4124705195427207,2.45395533740528,2.405040692538092],center=true);
//gt label: ***
translate([-15.441789627075197,0.6475475011393432,-0.009473927784711093])
rotate([0.468714130794327, -0.26210844401817973, 66.58997092676087])
cube([5.233722962439064,2.230983357876548,0.4179071402177218],center=true);
//gt label: ***
translate([2.3020989634096627,-4.345961958169937,-4.272172935307026])
rotate([160.73347850287567, 83.72395122937961, -110.0326433398113])
cube([5.181406103074554,4.2309546098113096,1.4322108030319223],center=true);
//gt label: ***
translate([-1.0291765443980696,-4.379029311239719,9.931433126330376])
rotate([-89.70324549643868, -84.1829831107987, -2.2214055295749935])
cube([4.76372726261617,4.4013271853327876,0.6496309861540865],center=true);
//gt label: ***
translate([-17.14067667722702,4.005718380212784,-0.01963946182513608])
rotate([-0.17231084772373145, -0.15952507820283718, 99.50237198315423])
cube([3.2515583746135364,2.16392930597069,0.1584215543698521],center=true);
//gt label: ***
translate([-4.709801189601421,-4.1979532316327095,-14.662889242172241])
rotate([92.95449334560206, -71.17966014336376, -0.06589732549748115])
cube([6.095076389610771,2.484403364360339,0.34865967929363895],center=true);
//gt label: ***
translate([-4.689892344176769,-4.205830469727516,14.676300585269928])
rotate([-92.41374370312249, 71.56159133791489, 0.1150922306163651])
cube([6.07949033379555,2.4659978039562747,0.34893881762401274],center=true);

//gt label: ***
translate([-14.379241466522217,-1.4327777363359928,3.432165253907442])
rotate([-89.8906439961192, 72.06486113150841, 0.33916275096654835])
cube([5.22511467337609,1.8507272377610346,0.12722646933981363],center=true);
//gt label: ***
translate([10.240879952907562,-2.4842165037989616,-0.01277930488868148])
rotate([179.9366177146892, -0.11114175736444476, -0.8646565240588133])
cube([11.867466717958454,3.4932164102792758,3.2916647568345097],center=true);
//gt label: ***
translate([-1.0262832790613174,-4.376330077648163,-9.927223846316338])
rotate([90.23711066443157, -83.74390568369569, 177.74313012338342])
cube([4.7601740434765905,4.400968626141557,0.64976539462805],center=true);

```

```

//gt label: wing
translate([-1.5893350262194874,-4.188789688050747,4.360119923949242])
rotate([-10.839169757964955,-86.65302178340283,99.10954413665007])
cube([5.5495791882276535,2.7453395910561103,0.743680293671789],center=true);
//gt label: engine
translate([2.294098995625973,-4.355607815086842,4.279787912964821])
rotate([-162.71192063282987,-83.86572783321868,-108.06174017839452])
cube([5.190586857497699,4.237833209335811,1.4364818576723428],center=true);
//gt label: wing
translate([-1.5760746877640484,-4.198968671262264,-4.350411780178548])
rotate([13.201863020653578,86.5395668647182,101.40184615964846])
cube([5.524439476430418,2.7468611113727097,0.7459424436092397],center=true);
//gt label: engine
translate([17.794046103954315,-2.932734712958336,-0.0025601062225177884])
rotate([-153.01368703836872,89.49457059464926,26.33887855148037])
cube([1.3221963401883874,1.2848753482103545,0.9487679041922337],center=true);
//gt label: tail
translate([-14.217626750469208,-1.4404156617820263,-3.50570697337389])
rotate([91.76885955381205,-67.69119752320073,-0.4460848230136764])
cube([5.253285951912408,1.8261546641588369,0.12881031492725242],center=true);
//gt label: body
translate([-3.303586132824421,-2.1400148421525955,-0.012198599069961402])
rotate([-179.8487821329813,0.04566453422849723,-1.546757039779757])
cube([13.261167854070663,3.426635861396792,3.194976914674046],center=true);
//gt label: body
translate([-12.712700963020325,-1.1528310086578129,-0.037956243613734876])
rotate([143.6986956534412,0.46437753244110125,-9.39914650360689])
cube([3.4124705195427207,2.45395533740528,2.405040692538092],center=true);
//gt label: body
translate([-15.441789627075197,0.6475475011393432,-0.009473927784711093])
rotate([0.468714130794327,-0.26210844401817973,66.58997092676087])
cube([5.233722962439064,2.230983357876548,0.4179071402177218],center=true);
//gt label: engine
translate([2.3020989634096627,-4.345961958169937,-4.272172935307026])
rotate([160.73347850287567,83.72395122937961,-110.0326433398113])
cube([5.181406103074554,4.2309546098113096,1.4322108030319223],center=true);
//gt label: body
translate([-1.0291765443980696,-4.379029311239719,9.931433126330376])
rotate([-89.70324549643868,-84.1829831107987,-2.2214055295749935])
cube([4.76372726261617,4.4013271853327876,0.6496309861540865],center=true);
//gt label: tail
translate([-17.14067667722702,4.005718380212784,-0.01963946182513608])
rotate([-0.17231084772373145,-0.15952507820283718,99.50237198315423])
cube([3.2515583746135364,2.16392930597069,0.1584215543698521],center=true);
//gt label: wing
translate([-4.709801189601421,-4.1979532316327095,-14.662889242172241])
rotate([92.95449334560206,-71.17966014336376,-0.06589732549748115])
cube([6.095076389610771,2.484403364360339,0.34865967929363895],center=true);
//gt label: wing
translate([-4.689892344176769,-4.205830469727516,14.676300585269928])
rotate([-92.41374370312249,71.56159133791489,0.1150922306163651])
cube([6.07949033379555,2.4659978039562747,0.34893881762401274],center=true);

//gt label: tail
translate([-14.379241466522217,-1.4327777363359928,3.432165253907442])
rotate([-89.8906439961192,72.06486113150841,0.33916275096654835])

```

```

cube([5.22511467337609,1.8507272377610346,0.12722646933981363],center=true);
//gt label: body
translate([10.240879952907562,-2.4842165037989616,-0.01277930488868148])
rotate([179.9366177146892,-0.11114175736444476,-0.8646565240588133])
cube([11.867466717958454,3.4932164102792758,3.2916647568345097],center=true);
//gt label: body
translate([-1.0262832790613174,-4.376330077648163,-9.927223846316338])
rotate([90.23711066443157,-83.74390568369569,177.74313012338342])
cube([4.7601740434765905,4.400968626141557,0.64976539462805],center=true);

```

Airplane^{Ellip} Question: 3

The following code describes a model airplane.

The airplane is consist of four parts, namely wing, body, tail, and engine.

Please annotate the following code to classify every code block. Block is defined with the 'code' sentence.

Here are an annotation example, please comment the given code following the structure of example.

Notice 1, all annotation should start with '//gt label:'.add()

Notice 2, the labels given in the example program have nothing to do with what you will predict for the task program. Please use the metioned parts to label.

Please think step by step

Example:

```

$vpf=1;
$fn=16;
//gt label: body
color([0.983240378920939,0.004446877803519933,0.8468058652462592])
translate([0.24157473412544833,-1.557145688844764,-2.66435936741207])
rotate([88.68075848431147,-0.00021856383221735182,-0.006886489023197046])
scale([2.561554879597996,16.83919675972151,2.807686834231667]) sphere(r=1);
//gt label: wing
color([0.0,0.5,1.0])
translate([-6.39918459498364,-2.38746900273406,-0.7876720522408901])
rotate([104.62790571647503,-0.8680532723978376,87.69025106314312])
scale([0.926623315266941,2.7267785985832633,11.099499528822692]) sphere(r=1);
//gt label: wing
color([0.0,0.5,1.0])
translate([7.129291283047718,-2.374162492544755,-0.7275716523113459])
rotate([0.9798473109783928,-14.63333799508122,2.0680431178963024])
scale([10.82466341879057,0.9289916766726453,2.702962428979252]) sphere(r=1);
//gt label: engine
color([0.342262306440579,0.9654529077171228,0.6951161119283671])
translate([-2.130916471714559,-0.8171229906704115,5.754778987687567])
rotate([-0.380166293278613,1.340017663840917,166.8191922153544])
scale([1.9273767166811488,1.4683644732703334,3.8095413018827857]) sphere(r=1);
//gt label: engine
color([0.342262306440579,0.9654529077171228,0.6951161119283671])
translate([2.453267687688703,-0.8514563917465833,5.671246544174527])
rotate([0.5324532594958655,4.243010806399205,13.125879425433132])
scale([2.0789293977229493,1.4903552425296411,3.8719297103259875]) sphere(r=1);
//gt label: tail
color([0.9694379422232852,0.567936650505983,0.051701624423748926])
translate([0.24023378956253116,1.6149782130251762,13.543188831080561])
rotate([90.00648032169254,-38.72605478442989,90.02275117607512])

```

```

scale ([4.712729544743248,3.0583757421244746,0.9260936275772427]) sphere (r=1);
//gt label: body
color ([0.983240378920939,0.004446877803519933,0.8468058652462592])
translate ([0.24153832143739515,-1.6049332106890888,-10.444992975048399])
rotate ([-0.0005414635463752507, 5.491376383584306, 89.98859039186813])
scale ([2.7241349706183313,2.4907823328090752,9.354606724303702]) sphere (r=1);
//gt label: body
color ([0.983240378920939,0.004446877803519933,0.8468058652462592])
translate ([0.24154224109066572,-1.6007473773282508,-10.386243073836617])
rotate ([179.9981336585595, -84.48401150562663, 89.99408795583138])
scale ([9.424663756204689,2.4797944756953614,2.710601476871449]) sphere (r=1);
//gt label: body
color ([0.03531985660368242,0.10997811473592722,0.3586572056561802])
translate ([0.24265388593725537,-3.794661941735641,-13.633564632871877])
rotate ([-89.94175331432587, -8.223475462005972, 89.6715721613241])
scale ([2.0578505714302477,1.1691268290514532,1.0548472890387413]) sphere (r=1);
//gt label: engine
color ([0.342262306440579,0.9654529077171228,0.6951161119283671])
translate ([-2.1495576300050905,-4.328589627276297,-1.1252472015178723])
rotate ([-4.877693565493809, 7.899950628418712, -5.9580767196236835])
scale ([1.1052687287978504,1.5207928645869961,1.1745780868374784]) sphere (r=1);
//gt label: engine
color ([0.342262306440579,0.9654529077171228,0.6951161119283671])
translate ([2.633038308957349,-4.3289049811985185,-1.1256090567811676])
rotate ([82.25044946008136, 4.900259212390922, 95.22509675203334])
scale ([1.5205441447703736,1.1742809058531471,1.1052286414348562]) sphere (r=1);
//gt label: body
color ([0.983240378920939,0.004446877803519933,0.8468058652462592])
translate ([0.2415471406572539,-1.5457576707653378,-0.5452790014121844])
rotate ([-2.8912241736266164, -0.00042186994502188763, -0.006573834493923046])
scale ([2.571353834608327,2.71878802905912,15.465939822404282]) sphere (r=1);
//gt label: tail
color ([0.9694379422232852,0.567936650505983,0.051701624423748926])
translate ([0.24657244794070723,5.287554536176765,17.122698866802715])
rotate ([90.56655233914738, 0.012025533452469409, 0.007279213225184516])
scale ([4.196944508863532,2.2381783179614856,0.8506504575843397]) sphere (r=1);
//gt label: body
color ([0.03531985660368242,0.10997811473592722,0.3586572056561802])
translate ([-1.26775572805301,-2.855904270773349,-3.3077458648577984])
rotate ([-28.317693154913574, -2.8047548504272424, 76.1558961634586])
scale ([1.1072463720389036,2.356197652609452,6.213608967221302]) sphere (r=1);
//gt label: wing
color ([0.0,0.5,1.0])
translate ([2.3268171788557717,-2.6616952503504963,-1.757947566068691])
rotate ([-166.02322816461108, -0.40721552992694054, -87.52926026733635])
scale ([1.0341587354955466,7.321289440859919,3.6386169817136684]) sphere (r=1);
//gt label: wing
color ([0.0,0.5,1.0])
translate ([-0.3055957672388658,-2.6216447677301327,-1.2306152316539185])
rotate ([88.59951820941549, -0.29403556611965814, 89.62164324290538])
scale ([1.1225699001680252,3.9462117721205177,8.110738966775978]) sphere (r=1);
//gt label: wing
color ([0.03531985660368242,0.10997811473592722,0.3586572056561802])
translate ([1.8301643269217533,-2.848327581001365,-1.1353052990592045])
rotate ([-0.05059205012642036, -31.34769503992146, 10.28144408080884])
scale ([3.6129361261492194,1.0977951971733053,4.56920075027839]) sphere (r=1);
//gt label: tail
color ([0.9694379422232852,0.567936650505983,0.051701624423748926])

```

```

translate([-1.1446400424060614,5.304295731627423,17.39638188610906])
rotate([-89.50391814156252, -77.04482763856267, -0.8576004907138622])
scale([2.0731409606726277,5.385071233562802,0.8270332103838092]) sphere(r=1);
//gt label: tail
color([0.9694379422232852,0.567936650505983,0.051701624423748926])
translate([1.4655062442888385,5.301312162824299,17.384685640749726])
rotate([-0.03728314029126139, -10.751022418499065, 0.4378785887644302])
scale([5.371324653210848,0.8296290007622347,2.0656774063473162]) sphere(r=1);

```

Task:

```

//gt label: ***
translate([19.35147315263748,-2.3588359355926514,-0.017098860262194666])
rotate([103.22551892903451, -89.68850952659633, -103.02606851346802])
cube([1.4854588918388032,1.4666296169162056,0.9966680314392127],center=true);
//gt label: ***
translate([-4.05317522585392,-2.556444462388754,-13.916282951831818])
rotate([104.83362697532066, -63.78530813281644, -9.99065022559133])
cube([6.71284642070532,2.1321101486682927,0.3067173971794662],center=true);
//gt label: ***
translate([-4.047834537923336,-2.5251344591379166,13.977147042751312])
rotate([-104.84296394673429, 63.76993566668482, -10.467470552035177])
cube([6.699303947389131,2.119463663548242,0.30590198235588006],center=true);

//gt label: ***
translate([-17.88057565689087,-0.8994258567690849,-3.4547751769423485])
rotate([107.22073837463746, -65.46056644774335, -16.068992305603714])
cube([5.685839876532558,1.8444823659956526,0.1169114129152275],center=true);
//gt label: ***
translate([0.4944535344839095,-3.3902707882225513,4.4299811869859695])
rotate([-169.70305450083723, 82.40043095194424, -81.27587109581378])
cube([4.816342443227768,2.51477885991335,0.7377750286832456],center=true);
//gt label: ***
translate([-0.3295525722205638,-3.1723587960004807,-9.958050921559334])
rotate([-33.57586497967647, -82.35632091017473, 124.19392975594913])
cube([4.933460578322414,3.70298828929663,0.6161986198276308],center=true);
//gt label: ***
translate([-0.3278399910777808,-3.1725186109542847,9.961305409669876])
rotate([33.92674482592437, 82.53643281067012, 124.41954626868937])
cube([4.929474629461776,3.7014614418149105,0.614628540351993],center=true);
//gt label: ***
translate([-18.86580780148506,4.120122529566288,-0.03561457677278668])
rotate([0.015577260699152738, 0.23327545333733019, 94.02326829810939])
cube([2.348678056150694,1.7517704330385009,0.14861202798783824],center=true);
//gt label: ***
translate([-18.031493425369263,-0.879371538758278,3.3500738441944127])
rotate([-111.45557055257179, 70.98867524928433, -21.415623979541834])
cube([5.698197670280939,1.857860721647753,0.11583969229832725],center=true);
//gt label: ***
translate([-14.322124421596527,-0.8669077139347791,-0.01120624168834193])
rotate([139.1750210010532, 1.0586025700072843, -8.062447364094146])
cube([3.378987442702065,2.51641757786275,2.4365506693720933],center=true);
//gt label: ***
translate([0.49646740779280674,-3.4003819525241856,-4.430934749543667])
rotate([169.43364803307446, -82.54568553642547, -80.71195981728893])
cube([4.822181425988676,2.514653671532871,0.7399983005598232],center=true);
//gt label: ***

```

```

translate([-4.4803401082754135,-2.3446794040501118,-0.010926213362836307])
rotate([179.99832540193842, 0.02092757387061096, -4.407551599006336])
cube([14.15883451700211,3.96681245416403,3.30937020480633],center=true);
//gt label: ***
translate([10.91297559440136,-2.18883503228426,-0.016058923356467743])
rotate([0.06424524681481897, -0.36448483783202995, 1.5600131310411343])
cube([13.592597842216492,4.056088775396351,3.3325081318616876],center=true);
//gt label: ***
translate([4.485025964677334,-3.4974084794521336,4.64983657002449])
rotate([-1.5794320693704758, -82.50112081866051, -90.85857518356286])
cube([5.2757825702428836,3.977863043546678,1.3635911792516748],center=true);
//gt label: ***
translate([4.486228674650192,-3.5031433776021004,-4.64188925921917])
rotate([179.0626689301875, -82.27737919139358, 88.5497614067408])
cube([5.281359702348712,3.9733247086405776,1.3640574086457538],center=true);
//gt label: ***
translate([-16.954638957977295,0.9377738647162914,-0.0187698789522983])
rotate([0.17586049775788598, 0.2639966728596206, 70.2598060147382])
cube([5.249424576759342,2.284606192260994,0.38507016142830297],center=true);

```

Airplane^{Ellip} Answer: 3

```

//gt label: body
translate([19.35147315263748,-2.3588359355926514,-0.017098860262194666])
rotate([103.22551892903451, -89.68850952659633, -103.02606851346802])
cube([1.4854588918388032,1.4666296169162056,0.9966680314392127],center=true);
//gt label: wing
translate([-4.05317522585392,-2.556444462388754,-13.916282951831818])
rotate([104.83362697532066, -63.78530813281644, -9.99065022559133])
cube([6.71284642070532,2.1321101486682927,0.3067173971794662],center=true);
//gt label: wing
translate([-4.047834537923336,-2.5251344591379166,13.977147042751312])
rotate([-104.84296394673429, 63.76993566668482, -10.467470552035177])
cube([6.699303947389131,2.119463663548242,0.30590198235588006],center=true);

//gt label: engine
translate([-17.88057565689087,-0.8994258567690849,-3.4547751769423485])
rotate([107.22073837463746, -65.46056644774335, -16.068992305603714])
cube([5.685839876532558,1.8444823659956526,0.1169114129152275],center=true);
//gt label: body
translate([0.4944535344839095,-3.3902707882225513,4.4299811869859695])
rotate([-169.70305450083723, 82.40043095194424, -81.27587109581378])
cube([4.816342443227768,2.51477885991335,0.7377750286832456],center=true);
//gt label: wing
translate([-0.3295525722205638,-3.1723587960004807,-9.958050921559334])
rotate([-33.57586497967647, -82.35632091017473, 124.19392975594913])
cube([4.933460578322414,3.70298828929663,0.6161986198276308],center=true);
//gt label: wing
translate([-0.3278399910777808,-3.1725186109542847,9.961305409669876])
rotate([33.92674482592437, 82.53643281067012, 124.41954626868937])
cube([4.929474629461776,3.7014614418149105,0.614628540351993],center=true);
//gt label: engine
translate([-18.86580780148506,4.120122529566288,-0.03561457677278668])
rotate([0.015577260699152738, 0.23327545333733019, 94.02326829810939])
cube([2.348678056150694,1.7517704330385009,0.14861202798783824],center=true);
//gt label: engine

```



```

translate([-18.031493425369263,-0.879371538758278,3.3500738441944127])
rotate([-111.45557055257179, 70.98867524928433, -21.415623979541834])
cube([5.698197670280939,1.857860721647753,0.11583969229832725],center=true);
//gt label: body
translate([-14.322124421596527,-0.8669077139347791,-0.01120624168834193])
rotate([139.1750210010532, 1.0586025700072843, -8.062447364094146])
cube([3.378987442702065,2.51641757786275,2.4365506693720933],center=true);
//gt label: body
translate([0.49646740779280674,-3.4003819525241856,-4.430934749543667])
rotate([169.43364803307446, -82.54568553642547, -80.71195981728893])
cube([4.822181425988676,2.514653671532871,0.7399983005598232],center=true);
//gt label: body
translate([-4.4803401082754135,-2.3446794040501118,-0.010926213362836307])
rotate([179.99832540193842, 0.02092757387061096, -4.407551599006336])
cube([14.15883451700211,3.96681245416403,3.30937020480633],center=true);
//gt label: body
translate([10.91297559440136,-2.18883503228426,-0.016058923356467743])
rotate([0.06424524681481897, -0.36448483783202995, 1.5600131310411343])
cube([13.592597842216492,4.056088775396351,3.3325081318616876],center=true);
//gt label: wing
translate([4.485025964677334,-3.4974084794521336,4.64983657002449])
rotate([-1.5794320693704758, -82.50112081866051, -90.85857518356286])
cube([5.2757825702428836,3.977863043546678,1.3635911792516748],center=true);
//gt label: wing
translate([4.486228674650192,-3.5031433776021004,-4.64188925921917])
rotate([179.0626689301875, -82.27737919139358, 88.5497614067408])
cube([5.281359702348712,3.9733247086405776,1.3640574086457538],center=true);
//gt label: engine
translate([-16.954638957977295,0.9377738647162914,-0.0187698789522983])
rotate([0.17586049775788598, 0.2639966728596206, 70.2598060147382])
cube([5.249424576759342,2.284606192260994,0.38507016142830297],center=true);

```

Airplane^{Ellip} Question: 4

The following code describes a model airplane.

The airplane is consist of four parts, namely wing, body, tail, and engine.

Please annotate the following code to classify every code block. Block is defined with the 'code' sentence.

Here are an annotation example, please comment the given code following the structure of example.

Notice 1, all annotation should start with '//gt label:'.add()

Notice 2, the labels given in the example program have noting to do with what you will predict for the task program. Please use the metioned parts to label.

Please think step by step

Example:

```

$vpf=1;
$fn=16;
//gt label: body
color([0.983240378920939,0.004446877803519933,0.8468058652462592])
translate([0.24157473412544833,-1.557145688844764,-2.66435936741207])
rotate([88.68075848431147, -0.00021856383221735182, -0.006886489023197046])
scale([2.561554879597996,16.83919675972151,2.807686834231667]) sphere(r=1);
//gt label: wing
color([0.0,0.5,1.0])

```

```

translate([-6.39918459498364,-2.38746900273406,-0.7876720522408901])
rotate([104.62790571647503,-0.8680532723978376,87.69025106314312])
scale([0.926623315266941,2.7267785985832633,11.099499528822692]) sphere(r=1);
//gt label: wing
color([0.0,0.5,1.0])
translate([7.129291283047718,-2.374162492544755,-0.7275716523113459])
rotate([0.9798473109783928,-14.63333799508122,2.0680431178963024])
scale([10.82466341879057,0.9289916766726453,2.702962428979252]) sphere(r=1);
//gt label: engine
color([0.342262306440579,0.9654529077171228,0.6951161119283671])
translate([-2.130916471714559,-0.8171229906704115,5.754778987687567])
rotate([-0.380166293278613,1.340017663840917,166.8191922153544])
scale([1.9273767166811488,1.4683644732703334,3.8095413018827857]) sphere(r=1);
//gt label: engine
color([0.342262306440579,0.9654529077171228,0.6951161119283671])
translate([2.453267687688703,-0.8514563917465833,5.671246544174527])
rotate([0.5324532594958655,4.243010806399205,13.125879425433132])
scale([2.0789293977229493,1.4903552425296411,3.8719297103259875]) sphere(r=1);
//gt label: tail
color([0.9694379422232852,0.567936650505983,0.051701624423748926])
translate([0.24023378956253116,1.6149782130251762,13.543188831080561])
rotate([90.00648032169254,-38.72605478442989,90.02275117607512])
scale([4.712729544743248,3.0583757421244746,0.9260936275772427]) sphere(r=1);
//gt label: body
color([0.983240378920939,0.004446877803519933,0.8468058652462592])
translate([0.24153832143739515,-1.6049332106890888,-10.444992975048399])
rotate([-0.0005414635463752507,5.491376383584306,89.98859039186813])
scale([2.7241349706183313,2.4907823328090752,9.354606724303702]) sphere(r=1);
//gt label: body
color([0.983240378920939,0.004446877803519933,0.8468058652462592])
translate([0.24154224109066572,-1.6007473773282508,-10.386243073836617])
rotate([179.9981336585595,-84.48401150562663,89.99408795583138])
scale([9.424663756204689,2.4797944756953614,2.710601476871449]) sphere(r=1);
//gt label: body
color([0.03531985660368242,0.10997811473592722,0.3586572056561802])
translate([0.24265388593725537,-3.794661941735641,-13.633564632871877])
rotate([-89.94175331432587,-8.223475462005972,89.6715721613241])
scale([2.0578505714302477,1.1691268290514532,1.0548472890387413]) sphere(r=1);
//gt label: engine
color([0.342262306440579,0.9654529077171228,0.6951161119283671])
translate([-2.1495576300050905,-4.328589627276297,-1.1252472015178723])
rotate([-4.877693565493809,7.899950628418712,-5.9580767196236835])
scale([1.1052687287978504,1.5207928645869961,1.1745780868374784]) sphere(r=1);
//gt label: engine
color([0.342262306440579,0.9654529077171228,0.6951161119283671])
translate([2.633038308957349,-4.3289049811985185,-1.1256090567811676])
rotate([82.25044946008136,4.900259212390922,95.22509675203334])
scale([1.5205441447703736,1.1742809058531471,1.1052286414348562]) sphere(r=1);
//gt label: body
color([0.983240378920939,0.004446877803519933,0.8468058652462592])
translate([0.2415471406572539,-1.5457576707653378,-0.5452790014121844])
rotate([-2.8912241736266164,-0.00042186994502188763,-0.006573834493923046])
scale([2.571353834608327,2.71878802905912,15.465939822404282]) sphere(r=1);
//gt label: tail
color([0.9694379422232852,0.567936650505983,0.051701624423748926])
translate([0.24657244794070723,5.287554536176765,17.122698866802715])
rotate([90.56655233914738,0.012025533452469409,0.007279213225184516])
scale([4.196944508863532,2.2381783179614856,0.8506504575843397]) sphere(r=1);

```

```

//gt label: body
color ([0.03531985660368242,0.10997811473592722,0.3586572056561802])
translate ([-1.26775572805301,-2.855904270773349,-3.3077458648577984])
rotate ([-28.317693154913574, -2.8047548504272424, 76.1558961634586])
scale ([1.1072463720389036,2.356197652609452,6.213608967221302]) sphere (r=1);
//gt label: wing
color ([0.0,0.5,1.0])
translate ([2.3268171788557717,-2.6616952503504963,-1.757947566068691])
rotate ([-166.02322816461108, -0.40721552992694054, -87.52926026733635])
scale ([1.0341587354955466,7.321289440859919,3.6386169817136684]) sphere (r=1);
//gt label: wing
color ([0.0,0.5,1.0])
translate ([-0.3055957672388658,-2.6216447677301327,-1.2306152316539185])
rotate ([88.59951820941549, -0.29403556611965814, 89.62164324290538])
scale ([1.1225699001680252,3.9462117721205177,8.110738966775978]) sphere (r=1);
//gt label: wing
color ([0.03531985660368242,0.10997811473592722,0.3586572056561802])
translate ([1.8301643269217533,-2.848327581001365,-1.1353052990592045])
rotate ([-0.05059205012642036, -31.34769503992146, 10.28144408080884])
scale ([3.6129361261492194,1.0977951971733053,4.56920075027839]) sphere (r=1);
//gt label: tail
color ([0.9694379422232852,0.567936650505983,0.051701624423748926])
translate ([-1.1446400424060614,5.304295731627423,17.39638188610906])
rotate ([-89.50391814156252, -77.04482763856267, -0.8576004907138622])
scale ([2.0731409606726277,5.385071233562802,0.8270332103838092]) sphere (r=1);
//gt label: tail
color ([0.9694379422232852,0.567936650505983,0.051701624423748926])
translate ([1.4655062442888385,5.301312162824299,17.384685640749726])
rotate ([-0.03728314029126139, -10.751022418499065, 0.4378785887644302])
scale ([5.371324653210848,0.8296290007622347,2.0656774063473162]) sphere (r=1);

```

Task:

```

//gt label: ***
translate ([-4.937656745314598,-0.5644229799509047,-7.185888439416885])
rotate ([-92.91445405869247, 2.455161973253575, -2.4629148932128375])
cube ([4.833789318799984,3.843483254313482,1.1417334992438573],center=true);
//gt label: ***
translate ([1.8948503024876118,-0.4846544191241265,6.544039212167263])
rotate ([96.02241750533642, -3.1346558991233366, 0.12475104841918119])
cube ([5.755106955766679,4.3895303830504435,2.031264044344426],center=true);
//gt label: ***
translate ([-6.632417291402817,0.042038779356516884,0.12106833048164842])
rotate ([-2.7018029000444166, -89.3967839932089, -91.08199256885845])
cube ([3.0631588771939287,1.395140290260329,1.2514802720397846],center=true);
//gt label: ***
translate ([-5.989491157233715,0.15583618893288073,4.4798192754387856])
rotate ([86.43053739620203, -7.2321807615674985, -1.2067466120143868])
cube ([1.7808299139142107,1.363333221524963,0.9327511675655858],center=true);
//gt label: ***
translate ([-5.55074255913496,-0.11100573814474046,-19.73050832748413])
rotate ([83.78349109368294, -79.29331185591928, 2.630074341079378])
cube ([8.78828905522824,3.86009335517884,0.8084750128909952],center=true);
//gt label: ***
translate ([-2.74593910202384,-0.16718886443413794,-12.884780690073967])
rotate ([-123.40912611547402, -83.20658375898917, 32.257242035233844])
cube ([5.676467753946797,5.533650554716602,0.9517370816320206],center=true);

```

```

//gt label: ***
translate([-6.006421707570553,0.19017482642084363,-4.3698641285300255])
rotate([-86.15866192972756, 7.901237713326876, -0.04428547162047872])
cube([1.8119565397500996,1.400645608082416,0.9536156244576006],center=true);
//gt label: ***
translate([-2.346137408167124,0.2446413505822419,0.03922483883798123])
rotate([91.7418282457279, 1.435789465910794, 177.94691896766312])
cube([5.6527036800980675,5.3877161443233605,2.396653685718777],center=true);
//gt label: ***
translate([-4.929370135068893,-0.5756483925506473,7.199982479214668])
rotate([-87.08286068428667, -2.7126465891434703, -2.3110198425153032])
cube([4.817005470395101,3.8513572141528303,1.1392100621014838],center=true);
//gt label: ***
translate([-2.7720776572823524,-0.18513750517740848,12.895326837897302])
rotate([54.223714049713195, -82.86780415923307, -145.31477929124017])
cube([5.710964836180443,5.557915382087465,0.9538877196609985],center=true);
//gt label: ***
translate([-7.908781468868256,0.5355192162096499,0.12190410634502771])
rotate([-169.43527643470225, 89.51704969640711, 106.068263012849])
cube([2.740756589919329,1.0123296920210139,0.3820433071814509],center=true);
//gt label: ***
translate([1.9122754596173763,-0.4782107518985869,-6.530029997229575])
rotate([-95.75699191593023, 3.2416210445054503, 0.1610515868166719])
cube([5.7569894939661115,4.427450783550748,2.0465208403766164],center=true);
//gt label: ***
translate([3.5717224329710007,-0.7832196913659571,0.048454075586050804])
rotate([64.21646037555853, -89.92472175650519, -156.14423337454508])
cube([7.313624843955042,4.448320977389814,2.53123488277197],center=true);
//gt label: ***
translate([9.820144549012184,-1.0545084439218044,0.05640826944727452])
rotate([114.05685845481116, 89.85865331195842, -156.58582582443725])
cube([0.8348011970520022,0.3526416327804888,0.3014790266752922],center=true);
//gt label: ***
translate([7.582060694694519,-0.8136134734377265,0.010673422730178574])
rotate([117.5908223508261, -89.88028052667747, 151.2633523186206])
cube([2.9756208509206776,2.2291155718266973,1.6206164471805113],center=true);
//gt label: ***
translate([-5.636060796678066,-0.11684840894304216,19.767055958509445])
rotate([-83.49157131139361, 79.07282323743146, 3.0570158717859184])
cube([8.758708536624912,3.8033426553010985,0.7928261067718279],center=true);

```

Airplane^{Ellip} Answer: 4

```

//gt label: wing
translate([-4.937656745314598,-0.5644229799509047,-7.185888439416885])
rotate([-92.91445405869247, 2.455161973253575, -2.4629148932128375])
cube([4.833789318799984,3.843483254313482,1.1417334992438573],center=true);
//gt label: wing
translate([1.8948503024876118,-0.4846544191241265,6.544039212167263])
rotate([96.02241750533642, -3.1346558991233366, 0.12475104841918119])
cube([5.755106955766679,4.3895303830504435,2.031264044344426],center=true);
//gt label: engine
translate([-6.632417291402817,0.042038779356516884,0.12106833048164842])
rotate([-2.7018029000444166, -89.3967839932089, -91.08199256885845])
cube([3.0631588771939287,1.395140290260329,1.2514802720397846],center=true);
//gt label: engine

```

```

translate([-5.989491157233715,0.15583618893288073,4.4798192754387856])
rotate([86.43053739620203, -7.2321807615674985, -1.2067466120143868])
cube([1.7808299139142107,1.363333221524963,0.9327511675655858],center=true);
//gt label: tail
translate([-5.55074255913496,-0.11100573814474046,-19.73050832748413])
rotate([83.78349109368294, -79.29331185591928, 2.630074341079378])
cube([8.78828905522824,3.86009335517884,0.8084750128909952],center=true);
//gt label: body
translate([-2.74593910202384,-0.16718886443413794,-12.884780690073967])
rotate([-123.40912611547402, -83.20658375898917, 32.257242035233844])
cube([5.676467753946797,5.533650554716602,0.9517370816320206],center=true);
//gt label: engine
translate([-6.006421707570553,0.19017482642084363,-4.3698641285300255])
rotate([-86.15866192972756, 7.901237713326876, -0.04428547162047872])
cube([1.8119565397500996,1.400645608082416,0.9536156244576006],center=true);
//gt label: body
translate([-2.346137408167124,0.2446413505822419,0.03922483883798123])
rotate([91.7418282457279, 1.435789465910794, 177.94691896766312])
cube([5.6527036800980675,5.3877161443233605,2.396653685718777],center=true);
//gt label: wing
translate([-4.929370135068893,-0.5756483925506473,7.199982479214668])
rotate([-87.08286068428667, -2.7126465891434703, -2.3110198425153032])
cube([4.817005470395101,3.8513572141528303,1.1392100621014838],center=true);
//gt label: body
translate([-2.7720776572823524,-0.18513750517740848,12.895326837897302])
rotate([54.223714049713195, -82.86780415923307, -145.31477929124017])
cube([5.710964836180443,5.557915382087465,0.9538877196609985],center=true);
//gt label: engine
translate([-7.908781468868256,0.5355192162096499,0.12190410634502771])
rotate([-169.43527643470225, 89.51704969640711, 106.068263012849])
cube([2.740756589919329,1.0123296920210139,0.3820433071814509],center=true);
//gt label: wing
translate([1.9122754596173763,-0.4782107518985869,-6.530029997229575])
rotate([-95.75699191593023, 3.2416210445054503, 0.1610515868166719])
cube([5.7569894939661115,4.427450783550748,2.0465208403766164],center=true);
//gt label: body
translate([3.5717224329710007,-0.7832196913659571,0.048454075586050804])
rotate([64.21646037555853, -89.92472175650519, -156.14423337454508])
cube([7.313624843955042,4.448320977389814,2.53123488277197],center=true);
//gt label: engine
translate([9.820144549012184,-1.0545084439218044,0.05640826944727452])
rotate([114.05685845481116, 89.85865331195842, -156.58582582443725])
cube([0.8348011970520022,0.3526416327804888,0.3014790266752922],center=true);
//gt label: body
translate([7.582060694694519,-0.8136134734377265,0.010673422730178574])
rotate([117.5908223508261, -89.88028052667747, 151.2633523186206])
cube([2.9756208509206776,2.2291155718266973,1.6206164471805113],center=true);
//gt label: tail
translate([-5.636060796678066,-0.11684840894304216,19.767055958509445])
rotate([-83.49157131139361, 79.07282323743146, 3.0570158717859184])
cube([8.758708536624912,3.8033426553010985,0.7928261067718279],center=true);

```

Airplane^{Ellip} Question: 5

The following code describes a model airplane.

The airplane is consist of four parts , namely wing , body , tail , and engine .
Please annotate the following code to classify every code block . Block is defined
with the 'code' sentence .
Here are an annotation example , please comment the given code following the structure
of example .

Notice 1 , all annotation should start with '//gt label:'.add()

Notice 2 , the labels given in the example program have noting to do with what you
will predict for the task program . Please use the metioned parts to label .

Please think step by step

Example :

```
$vpf=1;
$fn=16;
//gt label: body
color ([0.983240378920939,0.004446877803519933,0.8468058652462592])
translate ([0.24157473412544833,-1.557145688844764,-2.66435936741207])
rotate ([88.68075848431147,-0.00021856383221735182,-0.006886489023197046])
scale ([2.561554879597996,16.83919675972151,2.807686834231667]) sphere(r=1);
//gt label: wing
color ([0.0,0.5,1.0])
translate ([-6.39918459498364,-2.38746900273406,-0.7876720522408901])
rotate ([104.62790571647503,-0.8680532723978376,87.69025106314312])
scale ([0.926623315266941,2.7267785985832633,11.099499528822692]) sphere(r=1);
//gt label: wing
color ([0.0,0.5,1.0])
translate ([7.129291283047718,-2.374162492544755,-0.7275716523113459])
rotate ([0.9798473109783928,-14.63333799508122,2.0680431178963024])
scale ([10.82466341879057,0.9289916766726453,2.702962428979252]) sphere(r=1);
//gt label: engine
color ([0.342262306440579,0.9654529077171228,0.6951161119283671])
translate ([-2.130916471714559,-0.8171229906704115,5.754778987687567])
rotate ([-0.380166293278613,1.340017663840917,166.8191922153544])
scale ([1.9273767166811488,1.4683644732703334,3.8095413018827857]) sphere(r=1);
//gt label: engine
color ([0.342262306440579,0.9654529077171228,0.6951161119283671])
translate ([2.453267687688703,-0.8514563917465833,5.671246544174527])
rotate ([0.5324532594958655,4.243010806399205,13.125879425433132])
scale ([2.0789293977229493,1.4903552425296411,3.8719297103259875]) sphere(r=1);
//gt label: tail
color ([0.9694379422232852,0.567936650505983,0.051701624423748926])
translate ([0.24023378956253116,1.6149782130251762,13.543188831080561])
rotate ([90.00648032169254,-38.72605478442989,90.02275117607512])
scale ([4.712729544743248,3.0583757421244746,0.9260936275772427]) sphere(r=1);
//gt label: body
color ([0.983240378920939,0.004446877803519933,0.8468058652462592])
translate ([0.24153832143739515,-1.6049332106890888,-10.444992975048399])
rotate ([-0.0005414635463752507,5.491376383584306,89.98859039186813])
scale ([2.7241349706183313,2.4907823328090752,9.354606724303702]) sphere(r=1);
//gt label: body
color ([0.983240378920939,0.004446877803519933,0.8468058652462592])
translate ([0.24154224109066572,-1.6007473773282508,-10.386243073836617])
rotate ([179.9981336585595,-84.48401150562663,89.99408795583138])
scale ([9.424663756204689,2.4797944756953614,2.710601476871449]) sphere(r=1);
//gt label: body
color ([0.03531985660368242,0.10997811473592722,0.3586572056561802])
translate ([0.24265388593725537,-3.794661941735641,-13.633564632871877])
rotate ([-89.94175331432587,-8.223475462005972,89.6715721613241])
scale ([2.0578505714302477,1.1691268290514532,1.0548472890387413]) sphere(r=1);
```

```

//gt label: engine
color ([0.342262306440579,0.9654529077171228,0.6951161119283671])
translate ([-2.1495576300050905,-4.328589627276297,-1.1252472015178723])
rotate ([-4.877693565493809, 7.899950628418712, -5.9580767196236835])
scale ([1.1052687287978504,1.5207928645869961,1.1745780868374784]) sphere (r=1);
//gt label: engine
color ([0.342262306440579,0.9654529077171228,0.6951161119283671])
translate ([2.633038308957349,-4.3289049811985185,-1.1256090567811676])
rotate ([82.25044946008136, 4.900259212390922, 95.22509675203334])
scale ([1.5205441447703736,1.1742809058531471,1.1052286414348562]) sphere (r=1);
//gt label: body
color ([0.983240378920939,0.004446877803519933,0.8468058652462592])
translate ([0.2415471406572539,-1.5457576707653378,-0.5452790014121844])
rotate ([-2.8912241736266164, -0.00042186994502188763, -0.006573834493923046])
scale ([2.571353834608327,2.71878802905912,15.465939822404282]) sphere (r=1);
//gt label: tail
color ([0.9694379422232852,0.567936650505983,0.051701624423748926])
translate ([0.24657244794070723,5.287554536176765,17.122698866802715])
rotate ([90.56655233914738, 0.012025533452469409, 0.007279213225184516])
scale ([4.196944508863532,2.2381783179614856,0.8506504575843397]) sphere (r=1);
//gt label: body
color ([0.03531985660368242,0.10997811473592722,0.3586572056561802])
translate ([-1.26775572805301,-2.855904270773349,-3.3077458648577984])
rotate ([-28.317693154913574, -2.8047548504272424, 76.1558961634586])
scale ([1.1072463720389036,2.356197652609452,6.213608967221302]) sphere (r=1);
//gt label: wing
color ([0.0,0.5,1.0])
translate ([2.3268171788557717,-2.6616952503504963,-1.757947566068691])
rotate ([-166.02322816461108, -0.40721552992694054, -87.52926026733635])
scale ([1.0341587354955466,7.321289440859919,3.6386169817136684]) sphere (r=1);
//gt label: wing
color ([0.0,0.5,1.0])
translate ([-0.3055957672388658,-2.6216447677301327,-1.2306152316539185])
rotate ([88.59951820941549, -0.29403556611965814, 89.62164324290538])
scale ([1.1225699001680252,3.9462117721205177,8.110738966775978]) sphere (r=1);
//gt label: wing
color ([0.03531985660368242,0.10997811473592722,0.3586572056561802])
translate ([1.8301643269217533,-2.848327581001365,-1.1353052990592045])
rotate ([-0.05059205012642036, -31.34769503992146, 10.28144408080884])
scale ([3.6129361261492194,1.0977951971733053,4.56920075027839]) sphere (r=1);
//gt label: tail
color ([0.9694379422232852,0.567936650505983,0.051701624423748926])
translate ([-1.1446400424060614,5.304295731627423,17.39638188610906])
rotate ([-89.50391814156252, -77.04482763856267, -0.8576004907138622])
scale ([2.0731409606726277,5.385071233562802,0.8270332103838092]) sphere (r=1);
//gt label: tail
color ([0.9694379422232852,0.567936650505983,0.051701624423748926])
translate ([1.4655062442888385,5.301312162824299,17.384685640749726])
rotate ([-0.03728314029126139, -10.751022418499065, 0.4378785887644302])
scale ([5.371324653210848,0.8296290007622347,2.0656774063473162]) sphere (r=1);

```

Task:

```

//gt label: ***
translate ([2.6666569523513317,-3.648683577775955,-15.2097088098526])
rotate ([99.60243246282673, -81.53295681944715, -8.493162511796692])
cube ([5.2578878030181,2.996884845197213,0.3275234345346707],center=true);

```

```

//gt label: ***
translate([6.481567546725273,-3.873779661953449,-4.647144712507725])
rotate([173.34208878648465, 84.45186140354788, -96.95115390985654])
cube([5.627899579703813,3.557060845196259,1.14821819588543],center=true);
//gt label: ***
translate([-17.030799388885498,0.1135369227267802,0.039311418076977134])
rotate([1.504735854888443, -0.8910460515539764, 64.2993925632759])
cube([4.876379184424877,2.20578094944358,0.35494230221957024],center=true);
//gt label: ***
translate([2.6687964238226414,-3.6889594048261642,15.20717144012451])
rotate([-99.75075158696876, 81.69817719279854, -8.666054939714511])
cube([5.23786913603545,2.981903627514853,0.328212995082151],center=true);

//gt label: ***
translate([-16.74896940588951,-1.8076939880847933,-3.172638062387705])
rotate([100.91012515470068, -75.7748431983143, -11.286440711293574])
cube([4.2876352369785575,1.8424689024687435,0.11376293026844068],center=true);
//gt label: ***
translate([2.975103911012411,-3.8078416511416435,-4.661385454237461])
rotate([47.30279482263276, 89.86604992485822, 137.7311591465931])
cube([5.90829409658909,2.4130767211318025,0.5818469077348721],center=true);
//gt label: ***
translate([-3.4958427026867867,-2.4658922851085667,-0.011555958553799345])
rotate([-179.87435738316125, 0.17214619344374193, -0.1073028669735464])
cube([14.646199643611912,3.5272586345672634,3.0887274257838744],center=true);
//gt label: ***
translate([4.088809043169022,-3.7932689860463142,-10.431443303823471])
rotate([118.52024709354355, -85.50993289630408, 150.1964690427789])
cube([4.502600282430759,4.446491710841766,0.5941733019426494],center=true);
//gt label: ***
translate([10.669450387358665,-2.730014566332102,-0.029037086933385737])
rotate([0.16200673988774242, -0.203938913393779, 0.09303678984283609])
cube([13.310545757412914,3.838756829500202,3.3505299314856574],center=true);
//gt label: ***
translate([-13.871272504329681,-1.8559787981212141,0.029614210361614837])
rotate([139.56730956917485, 0.6282807067036446, -8.081027930114278])
cube([4.343831501901157,2.434399109333779,2.3602771386504413],center=true);
//gt label: ***
translate([2.9740624502301216,-3.8214775547385216,4.676979295909405])
rotate([48.991454332548564, 89.84962237121421, -40.38957160626654])
cube([5.944863446056845,2.4114754982292657,0.5809047678485555],center=true);
//gt label: ***
translate([-17.439861744642258,4.058343805372715,0.06194746471010148])
rotate([0.3603979699975381, -0.41050285760381033, 103.64422874165668])
cube([2.781330123543786,2.191038429737147,0.14844513149000793],center=true);
//gt label: ***
translate([18.170802891254425,-2.210857532918453,-0.04945462540490554])
rotate([-51.71227500620777, 89.96138128009756, 127.8807185530091])
cube([1.313095698133111,1.2585127446800708,0.8108676783740897],center=true);
//gt label: ***
translate([4.098080359399319,-3.8107724115252495,10.418190136551857])
rotate([-58.7244183672916, -85.70800509331495, -32.428692893220024])
cube([4.487958364188948,4.443379007280153,0.5954402964562203],center=true);
//gt label: ***
translate([6.480830758810043,-3.8918178528547287,4.650183245539665])
rotate([-173.87965615422672, -84.45812372469528, -96.51373201756485])
cube([5.633834451436998,3.5788333788514164,1.15461120381952],center=true);
//gt label: ***

```



```
translate([-16.854973435401917, -1.8270086497068405, 3.154975026845932])
rotate([-100.76540340709951, 79.28596712731512, -11.788116532293104])
cube([4.287483207881452, 1.8517297692596948, 0.11259619146585866], center=true);
```

Airplane^{Ellip} Answer: 5

```
//gt label: body
translate([2.6666569523513317, -3.648683577775955, -15.2097088098526])
rotate([99.60243246282673, -81.53295681944715, -8.493162511796692])
cube([5.2578878030181, 2.996884845197213, 0.3275234345346707], center=true);
//gt label: body
translate([6.481567546725273, -3.873779661953449, -4.647144712507725])
rotate([173.34208878648465, 84.45186140354788, -96.95115390985654])
cube([5.627899579703813, 3.557060845196259, 1.14821819588543], center=true);
//gt label: wing
translate([-17.030799388885498, 0.1135369227267802, 0.039311418076977134])
rotate([1.504735854888443, -0.8910460515539764, 64.2993925632759])
cube([4.876379184424877, 2.20578094944358, 0.35494230221957024], center=true);
//gt label: body
translate([2.6687964238226414, -3.6889594048261642, 15.20717144012451])
rotate([-99.75075158696876, 81.69817719279854, -8.666054939714511])
cube([5.23786913603545, 2.981903627514853, 0.328212995082151], center=true);
//gt label: wing
translate([-16.74896940588951, -1.8076939880847933, -3.172638062387705])
rotate([100.91012515470068, -75.7748431983143, -11.286440711293574])
cube([4.2876352369785575, 1.8424689024687435, 0.11376293026844068], center=true);
//gt label: body
translate([2.975103911012411, -3.8078416511416435, -4.661385454237461])
rotate([47.30279482263276, 89.86604992485822, 137.7311591465931])
cube([5.90829409658909, 2.4130767211318025, 0.5818469077348721], center=true);
//gt label: engine
translate([-3.4958427026867867, -2.4658922851085667, -0.011555958553799345])
rotate([-179.87435738316125, 0.17214619344374193, -0.1073028669735464])
cube([14.646199643611912, 3.5272586345672634, 3.0887274257838744], center=true);
//gt label: tail
translate([4.088809043169022, -3.7932689860463142, -10.431443303823471])
rotate([118.52024709354355, -85.50993289630408, 150.1964690427789])
cube([4.502600282430759, 4.446491710841766, 0.5941733019426494], center=true);
//gt label: engine
translate([10.669450387358665, -2.730014566332102, -0.029037086933385737])
rotate([0.16200673988774242, -0.203938913393779, 0.09303678984283609])
cube([13.310545757412914, 3.838756829500202, 3.3505299314856574], center=true);
//gt label: wing
translate([-13.871272504329681, -1.8559787981212141, 0.029614210361614837])
rotate([139.56730956917485, 0.6282807067036446, -8.081027930114278])
cube([4.343831501901157, 2.434399109333779, 2.3602771386504413], center=true);
//gt label: body
translate([2.9740624502301216, -3.8214775547385216, 4.676979295909405])
rotate([48.991454332548564, 89.84962237121421, -40.38957160626654])
cube([5.944863446056845, 2.4114754982292657, 0.5809047678485555], center=true);
//gt label: tail
translate([-17.439861744642258, 4.058343805372715, 0.06194746471010148])
rotate([0.3603979699975381, -0.41050285760381033, 103.64422874165668])
cube([2.781330123543786, 2.191038429737147, 0.14844513149000793], center=true);
//gt label: engine
translate([18.170802891254425, -2.210857532918453, -0.04945462540490554])
```

```

rotate([-51.71227500620777, 89.96138128009756, 127.8807185530091])
cube([1.313095698133111,1.2585127446800708,0.8108676783740897],center=true);
//gt label: tail
translate([4.098080359399319,-3.8107724115252495,10.418190136551857])
rotate([-58.7244183672916, -85.70800509331495, -32.428692893220024])
cube([4.487958364188948,4.443379007280153,0.5954402964562203],center=true);
//gt label: body
translate([6.480830758810043,-3.8918178528547287,4.650183245539665])
rotate([-173.87965615422672, -84.45812372469528, -96.51373201756485])
cube([5.633834451436998,3.5788333788514164,1.15461120381952],center=true);
//gt label: wing
translate([-16.854973435401917,-1.8270086497068405,3.154975026845932])
rotate([-100.76540340709951, 79.28596712731512, -11.788116532293104])
cube([4.287483207881452,1.8517297692596948,0.11259619146585866],center=true);

```

Airplane^{Ellip} Question: 6

The following code describes a model airplane.

The airplane is consist of four parts, namely wing, body, tail, and engine.

Please annotate the following code to classify every code block. Block is defined with the 'code' sentence.

Here are an annotation example, please comment the given code following the structure of example.

Notice 1, all annotation should start with '//gt label:'.add()

Notice 2, the labels given in the example program have nothing to do with what you will predict for the task program. Please use the metioned parts to label.

Please think step by step

Example:

```

$vpf=1;
$fn=16;
//gt label: body
color([0.983240378920939,0.004446877803519933,0.8468058652462592])
translate([0.24157473412544833,-1.557145688844764,-2.66435936741207])
rotate([88.68075848431147, -0.00021856383221735182, -0.006886489023197046])
scale([2.561554879597996,16.83919675972151,2.807686834231667]) sphere(r=1);
//gt label: wing
color([0.0,0.5,1.0])
translate([-6.39918459498364,-2.38746900273406,-0.7876720522408901])
rotate([104.62790571647503, -0.8680532723978376, 87.69025106314312])
scale([0.926623315266941,2.7267785985832633,11.099499528822692]) sphere(r=1);
//gt label: wing
color([0.0,0.5,1.0])
translate([7.129291283047718,-2.374162492544755,-0.7275716523113459])
rotate([0.9798473109783928, -14.63333799508122, 2.0680431178963024])
scale([10.82466341879057,0.9289916766726453,2.702962428979252]) sphere(r=1);
//gt label: engine
color([0.342262306440579,0.9654529077171228,0.6951161119283671])
translate([-2.130916471714559,-0.8171229906704115,5.754778987687567])
rotate([-0.380166293278613, 1.340017663840917, 166.8191922153544])
scale([1.9273767166811488,1.4683644732703334,3.8095413018827857]) sphere(r=1);
//gt label: engine
color([0.342262306440579,0.9654529077171228,0.6951161119283671])
translate([2.453267687688703,-0.8514563917465833,5.671246544174527])
rotate([0.5324532594958655, 4.243010806399205, 13.125879425433132])

```

```

scale ([2.0789293977229493,1.4903552425296411,3.8719297103259875]) sphere (r=1);
//gt label: tail
color ([0.9694379422232852,0.567936650505983,0.051701624423748926])
translate ([0.24023378956253116,1.6149782130251762,13.543188831080561])
rotate ([90.00648032169254, -38.72605478442989, 90.02275117607512])
scale ([4.712729544743248,3.0583757421244746,0.9260936275772427]) sphere (r=1);
//gt label: body
color ([0.983240378920939,0.004446877803519933,0.8468058652462592])
translate ([0.24153832143739515,-1.6049332106890888,-10.444992975048399])
rotate ([-0.0005414635463752507, 5.491376383584306, 89.98859039186813])
scale ([2.7241349706183313,2.4907823328090752,9.354606724303702]) sphere (r=1);
//gt label: body
color ([0.983240378920939,0.004446877803519933,0.8468058652462592])
translate ([0.24154224109066572,-1.6007473773282508,-10.386243073836617])
rotate ([179.9981336585595, -84.48401150562663, 89.99408795583138])
scale ([9.424663756204689,2.4797944756953614,2.710601476871449]) sphere (r=1);
//gt label: body
color ([0.03531985660368242,0.10997811473592722,0.3586572056561802])
translate ([0.24265388593725537,-3.794661941735641,-13.633564632871877])
rotate ([-89.94175331432587, -8.223475462005972, 89.6715721613241])
scale ([2.0578505714302477,1.1691268290514532,1.0548472890387413]) sphere (r=1);
//gt label: engine
color ([0.342262306440579,0.9654529077171228,0.6951161119283671])
translate ([-2.1495576300050905,-4.328589627276297,-1.1252472015178723])
rotate ([-4.877693565493809, 7.899950628418712, -5.9580767196236835])
scale ([1.1052687287978504,1.5207928645869961,1.1745780868374784]) sphere (r=1);
//gt label: engine
color ([0.342262306440579,0.9654529077171228,0.6951161119283671])
translate ([2.633038308957349,-4.3289049811985185,-1.1256090567811676])
rotate ([82.25044946008136, 4.900259212390922, 95.22509675203334])
scale ([1.5205441447703736,1.1742809058531471,1.1052286414348562]) sphere (r=1);
//gt label: body
color ([0.983240378920939,0.004446877803519933,0.8468058652462592])
translate ([0.2415471406572539,-1.5457576707653378,-0.5452790014121844])
rotate ([-2.8912241736266164, -0.00042186994502188763, -0.006573834493923046])
scale ([2.571353834608327,2.71878802905912,15.465939822404282]) sphere (r=1);
//gt label: tail
color ([0.9694379422232852,0.567936650505983,0.051701624423748926])
translate ([0.24657244794070723,5.287554536176765,17.122698866802715])
rotate ([90.56655233914738, 0.012025533452469409, 0.007279213225184516])
scale ([4.196944508863532,2.2381783179614856,0.8506504575843397]) sphere (r=1);
//gt label: body
color ([0.03531985660368242,0.10997811473592722,0.3586572056561802])
translate ([-1.26775572805301,-2.855904270773349,-3.3077458648577984])
rotate ([-28.317693154913574, -2.8047548504272424, 76.1558961634586])
scale ([1.1072463720389036,2.356197652609452,6.213608967221302]) sphere (r=1);
//gt label: wing
color ([0.0,0.5,1.0])
translate ([2.3268171788557717,-2.6616952503504963,-1.757947566068691])
rotate ([-166.02322816461108, -0.40721552992694054, -87.52926026733635])
scale ([1.0341587354955466,7.321289440859919,3.6386169817136684]) sphere (r=1);
//gt label: wing
color ([0.0,0.5,1.0])
translate ([-0.3055957672388658,-2.6216447677301327,-1.2306152316539185])
rotate ([88.59951820941549, -0.29403556611965814, 89.62164324290538])
scale ([1.1225699001680252,3.9462117721205177,8.110738966775978]) sphere (r=1);
//gt label: wing
color ([0.03531985660368242,0.10997811473592722,0.3586572056561802])

```

```

translate ([1.8301643269217533, -2.848327581001365, -1.1353052990592045])
rotate ([-0.05059205012642036, -31.34769503992146, 10.28144408080884])
scale ([3.6129361261492194, 1.0977951971733053, 4.56920075027839]) sphere (r=1);
//gt label: tail
color ([0.9694379422232852, 0.567936650505983, 0.051701624423748926])
translate ([-1.1446400424060614, 5.304295731627423, 17.39638188610906])
rotate ([-89.50391814156252, -77.04482763856267, -0.8576004907138622])
scale ([2.0731409606726277, 5.385071233562802, 0.8270332103838092]) sphere (r=1);
//gt label: tail
color ([0.9694379422232852, 0.567936650505983, 0.051701624423748926])
translate ([1.4655062442888385, 5.301312162824299, 17.384685640749726])
rotate ([-0.03728314029126139, -10.751022418499065, 0.4378785887644302])
scale ([5.371324653210848, 0.8296290007622347, 2.0656774063473162]) sphere (r=1);

```

Task:

```

//gt label: ***
translate ([-5.248727947473526, -2.4745253659784794, -14.013840556144714])
rotate ([109.89424263203908, -69.12760625537017, -20.417955850814955])
cube ([6.435828916728497, 1.4722913689911428, 0.3030487219803177], center=true);
//gt label: ***
translate ([-6.000542156398296, -2.798768598586321, -0.010049709017039275])
rotate ([90.00454549265245, 0.07107798946183885, -1.6802750977639527])
cube ([14.244629740715032, 3.8977949321270002, 3.760322518646719], center=true);
//gt label: ***
translate ([9.872481897473335, -3.1046685576438904, -0.01761319261277086])
rotate ([0.18251522455821348, -0.170573144795035, 0.08616103231700017])
cube ([14.553167670965198, 3.7681866437196785, 3.739449456334119], center=true);
//gt label: ***
translate ([-18.50606679916382, -1.5162854548543692, 3.581559658050537])
rotate ([-121.4253857359514, 71.25195714953539, -32.351150232989944])
cube ([5.068529620766643, 1.4543186407536397, 0.12695063487629138], center=true);
//gt label: ***
translate ([1.7925461940467355, -4.249418154358864, -4.342959076166153])
rotate ([-173.46678831919925, -85.80540001321393, 80.03467039580622])
cube ([4.222032018005853, 3.5428266599774396, 1.3572934456169667], center=true);
//gt label: ***
translate ([-18.41372162103653, -1.5141951572149992, -3.6957982555031776])
rotate ([117.77855361825083, -67.89409558375439, -27.545279549129397])
cube ([5.076169185340406, 1.4379124063998556, 0.12569904560223977], center=true);
//gt label: ***
translate ([-5.248141549527645, -2.4729768000543118, 14.026461839675903])
rotate ([-110.65534389727655, 69.0608673104898, -21.212035742382476])
cube ([6.437081620097162, 1.4740151166915916, 0.3055525664240132], center=true);

//gt label: ***
translate ([-1.375533966347575, -3.8190151751041412, -4.19157087802887])
rotate ([-170.30973055281905, -85.3349746501877, -99.51727931068837])
cube ([4.165925495326521, 2.2408275492489347, 0.7595643633976623], center=true);
//gt label: ***
translate ([-17.680680751800537, -0.09093458065763116, -0.01035835164657329])
rotate ([-0.12271285867400726, 0.4463140169460616, 76.286960688138])
cube ([5.594065114855767, 2.211204208433628, 0.6109681120142345], center=true);
//gt label: ***
translate ([-1.3676349073648455, -3.8242382556200023, 4.198714606463909])
rotate ([168.51254903240823, 85.14183180245382, -101.15045847816913])
cube ([4.160876572132112, 2.247832566499712, 0.7658232701942345], center=true);

```

```

//gt label: ***
translate([-15.522877275943756,-1.9791559688746931,-0.027850332844536762])
rotate([-177.88706452954585,-51.650273502731835,79.08214167670563])
cube([2.970514353364778,2.878327351063629,2.7701754495502247],center=true);
//gt label: ***
translate([-19.0590101480484,3.899596743285656,-0.015259650099324062])
rotate([179.87360191101203,-0.1504050145781123,-82.24047650306181])
cube([2.9095115512609544,1.5957570262253378,0.17636689124628913],center=true);
//gt label: ***
translate([1.788662485778332,-4.24810316413641,4.329006001353264])
rotate([5.257742675541998,-85.83462501802028,-98.78805930193221])
cube([4.208869822323326,3.552731908857825,1.3579544238746193],center=true);
//gt label: ***
translate([-2.6840487122535706,-3.134591039270163,8.759698569774628])
rotate([-112.97692722512515,75.05406084693053,-21.641985213729217])
cube([4.461636841297151,2.7660100162029293,0.5161132244393295],center=true);
//gt label: ***
translate([-2.6921517401933674,-3.1398325599730015,-8.746909275650978])
rotate([112.13637190067487,-75.12611967736886,-20.983249684429193])
cube([4.473304972052578,2.768377121537928,0.5180199397727886],center=true);
//gt label: ***
translate([18.883921802043915,-3.377793747931719,-0.0054192187963053445])
rotate([-52.09877395163174,-89.8803221224425,-127.95469705893517])
cube([1.7406602203846013,1.6422848962247458,1.115490552037962],center=true);

```

Airplane^{Ellip} Answer: 6

```

//gt label: wing
translate([-5.248727947473526,-2.4745253659784794,-14.013840556144714])
rotate([109.89424263203908,-69.12760625537017,-20.417955850814955])
cube([6.435828916728497,1.4722913689911428,0.3030487219803177],center=true);
//gt label: body
translate([-6.000542156398296,-2.798768598586321,-0.010049709017039275])
rotate([90.00454549265245,0.07107798946183885,-1.6802750977639527])
cube([14.244629740715032,3.8977949321270002,3.760322518646719],center=true);
//gt label: body
translate([9.872481897473335,-3.1046685576438904,-0.01761319261277086])
rotate([0.18251522455821348,-0.170573144795035,0.08616103231700017])
cube([14.553167670965198,3.7681866437196785,3.739449456334119],center=true);
//gt label: tail
translate([-18.50606679916382,-1.5162854548543692,3.581559658050537])
rotate([-121.4253857359514,71.25195714953539,-32.351150232989944])
cube([5.068529620766643,1.4543186407536397,0.12695063487629138],center=true);
//gt label: engine
translate([1.7925461940467355,-4.249418154358864,-4.342959076166153])
rotate([-173.46678831919925,-85.80540001321393,80.03467039580622])
cube([4.222032018005853,3.5428266599774396,1.3572934456169667],center=true);
//gt label: tail
translate([-18.41372162103653,-1.5141951572149992,-3.6957982555031776])
rotate([117.77855361825083,-67.89409558375439,-27.545279549129397])
cube([5.076169185340406,1.4379124063998556,0.12569904560223977],center=true);
//gt label: wing
translate([-5.248141549527645,-2.4729768000543118,14.026461839675903])
rotate([-110.65534389727655,69.0608673104898,-21.212035742382476])
cube([6.437081620097162,1.4740151166915916,0.3055525664240132],center=true);
//gt label: engine

```

```

translate([-1.375533966347575,-3.8190151751041412,-4.19157087802887])
rotate([-170.30973055281905,-85.3349746501877,-99.51727931068837])
cube([4.165925495326521,2.2408275492489347,0.7595643633976623],center=true);
//gt label: tail
translate([-17.680680751800537,-0.09093458065763116,-0.01035835164657329])
rotate([-0.12271285867400726,0.4463140169460616,76.286960688138])
cube([5.594065114855767,2.211204208433628,0.6109681120142345],center=true);
//gt label: engine
translate([-1.3676349073648455,-3.8242382556200023,4.198714606463909])
rotate([168.51254903240823,85.14183180245382,-101.15045847816913])
cube([4.160876572132112,2.247832566499712,0.7658232701942345],center=true);
//gt label: body
translate([-15.522877275943756,-1.9791559688746931,-0.027850332844536762])
rotate([-177.88706452954585,-51.650273502731835,79.08214167670563])
cube([2.970514353364778,2.878327351063629,2.7701754495502247],center=true);
//gt label: tail
translate([-19.0590101480484,3.899596743285656,-0.015259650099324062])
rotate([179.87360191101203,-0.1504050145781123,-82.24047650306181])
cube([2.9095115512609544,1.5957570262253378,0.17636689124628913],center=true);
//gt label: engine
translate([1.788662485778332,-4.24810316413641,4.329006001353264])
rotate([5.257742675541998,-85.83462501802028,-98.78805930193221])
cube([4.208869822323326,3.552731908857825,1.3579544238746193],center=true);
//gt label: wing
translate([-2.6840487122535706,-3.134591039270163,8.759698569774628])
rotate([-112.97692722512515,75.05406084693053,-21.641985213729217])
cube([4.461636841297151,2.7660100162029293,0.5161132244393295],center=true);
//gt label: wing
translate([-2.6921517401933674,-3.1398325599730015,-8.746909275650978])
rotate([112.13637190067487,-75.12611967736886,-20.983249684429193])
cube([4.473304972052578,2.768377121537928,0.5180199397727886],center=true);
//gt label: engine
translate([18.883921802043915,-3.377793747931719,-0.0054192187963053445])
rotate([-52.09877395163174,-89.8803221224425,-127.95469705893517])
cube([1.7406602203846013,1.6422848962247458,1.115490552037962],center=true);

```

Airplane^{Ellip} Question: 7

The following code describes a model airplane.

The airplane is consist of four parts, namely wing, body, tail, and engine.

Please annotate the following code to classify every code block. Block is defined with the 'code' sentence.

Here are an annotation example, please comment the given code following the structure of example.

Notice 1, all annotation should start with '//gt label:'.add()

Notice 2, the labels given in the example program have noting to do with what you will predict for the task program. Please use the metioned parts to label.

Please think step by step

Example:

```

$vpf=1;
$fn=16;
//gt label: body
color([0.983240378920939,0.004446877803519933,0.8468058652462592])
translate([0.24157473412544833,-1.557145688844764,-2.66435936741207])

```

```

rotate([88.68075848431147, -0.00021856383221735182, -0.006886489023197046])
scale([2.561554879597996,16.83919675972151,2.807686834231667]) sphere(r=1);
//gt label: wing
color([0.0,0.5,1.0])
translate([-6.39918459498364,-2.38746900273406,-0.7876720522408901])
rotate([104.62790571647503, -0.8680532723978376, 87.69025106314312])
scale([0.926623315266941,2.7267785985832633,11.099499528822692]) sphere(r=1);
//gt label: wing
color([0.0,0.5,1.0])
translate([7.129291283047718,-2.374162492544755,-0.7275716523113459])
rotate([0.9798473109783928, -14.63333799508122, 2.0680431178963024])
scale([10.82466341879057,0.9289916766726453,2.702962428979252]) sphere(r=1);
//gt label: engine
color([0.342262306440579,0.9654529077171228,0.6951161119283671])
translate([-2.130916471714559,-0.8171229906704115,5.754778987687567])
rotate([-0.380166293278613, 1.340017663840917, 166.8191922153544])
scale([1.9273767166811488,1.4683644732703334,3.8095413018827857]) sphere(r=1);
//gt label: engine
color([0.342262306440579,0.9654529077171228,0.6951161119283671])
translate([2.453267687688703,-0.8514563917465833,5.671246544174527])
rotate([0.5324532594958655, 4.243010806399205, 13.125879425433132])
scale([2.0789293977229493,1.4903552425296411,3.8719297103259875]) sphere(r=1);
//gt label: tail
color([0.9694379422232852,0.567936650505983,0.051701624423748926])
translate([0.24023378956253116,1.6149782130251762,13.543188831080561])
rotate([90.00648032169254, -38.72605478442989, 90.02275117607512])
scale([4.712729544743248,3.0583757421244746,0.9260936275772427]) sphere(r=1);
//gt label: body
color([0.983240378920939,0.004446877803519933,0.8468058652462592])
translate([0.24153832143739515,-1.6049332106890888,-10.444992975048399])
rotate([-0.0005414635463752507, 5.491376383584306, 89.98859039186813])
scale([2.7241349706183313,2.4907823328090752,9.354606724303702]) sphere(r=1);
//gt label: body
color([0.983240378920939,0.004446877803519933,0.8468058652462592])
translate([0.24154224109066572,-1.6007473773282508,-10.386243073836617])
rotate([179.9981336585595, -84.48401150562663, 89.99408795583138])
scale([9.424663756204689,2.4797944756953614,2.710601476871449]) sphere(r=1);
//gt label: body
color([0.03531985660368242,0.10997811473592722,0.3586572056561802])
translate([0.24265388593725537,-3.794661941735641,-13.633564632871877])
rotate([-89.94175331432587, -8.223475462005972, 89.6715721613241])
scale([2.0578505714302477,1.1691268290514532,1.0548472890387413]) sphere(r=1);
//gt label: engine
color([0.342262306440579,0.9654529077171228,0.6951161119283671])
translate([-2.1495576300050905,-4.328589627276297,-1.1252472015178723])
rotate([-4.877693565493809, 7.899950628418712, -5.9580767196236835])
scale([1.1052687287978504,1.5207928645869961,1.1745780868374784]) sphere(r=1);
//gt label: engine
color([0.342262306440579,0.9654529077171228,0.6951161119283671])
translate([2.633038308957349,-4.3289049811985185,-1.1256090567811676])
rotate([82.25044946008136, 4.900259212390922, 95.22509675203334])
scale([1.5205441447703736,1.1742809058531471,1.1052286414348562]) sphere(r=1);
//gt label: body
color([0.983240378920939,0.004446877803519933,0.8468058652462592])
translate([0.2415471406572539,-1.5457576707653378,-0.5452790014121844])
rotate([-2.8912241736266164, -0.00042186994502188763, -0.006573834493923046])
scale([2.571353834608327,2.71878802905912,15.465939822404282]) sphere(r=1);
//gt label: tail

```

```

color ([0.9694379422232852,0.567936650505983,0.051701624423748926])
translate ([0.24657244794070723,5.287554536176765,17.122698866802715])
rotate ([90.56655233914738, 0.012025533452469409, 0.007279213225184516])
scale ([4.196944508863532,2.2381783179614856,0.8506504575843397]) sphere(r=1);
//gt label: body
color ([0.03531985660368242,0.10997811473592722,0.3586572056561802])
translate ([-1.26775572805301,-2.855904270773349,-3.3077458648577984])
rotate ([-28.317693154913574, -2.8047548504272424, 76.1558961634586])
scale ([1.1072463720389036,2.356197652609452,6.213608967221302]) sphere(r=1);
//gt label: wing
color ([0.0,0.5,1.0])
translate ([2.3268171788557717,-2.6616952503504963,-1.757947566068691])
rotate ([-166.02322816461108, -0.40721552992694054, -87.52926026733635])
scale ([1.0341587354955466,7.321289440859919,3.6386169817136684]) sphere(r=1);
//gt label: wing
color ([0.0,0.5,1.0])
translate ([-0.3055957672388658,-2.6216447677301327,-1.2306152316539185])
rotate ([88.59951820941549, -0.29403556611965814, 89.62164324290538])
scale ([1.1225699001680252,3.9462117721205177,8.110738966775978]) sphere(r=1);
//gt label: wing
color ([0.03531985660368242,0.10997811473592722,0.3586572056561802])
translate ([1.8301643269217533,-2.848327581001365,-1.1353052990592045])
rotate ([-0.05059205012642036, -31.34769503992146, 10.28144408080884])
scale ([3.6129361261492194,1.0977951971733053,4.56920075027839]) sphere(r=1);
//gt label: tail
color ([0.9694379422232852,0.567936650505983,0.051701624423748926])
translate ([-1.1446400424060614,5.304295731627423,17.39638188610906])
rotate ([-89.50391814156252, -77.04482763856267, -0.8576004907138622])
scale ([2.0731409606726277,5.385071233562802,0.8270332103838092]) sphere(r=1);
//gt label: tail
color ([0.9694379422232852,0.567936650505983,0.051701624423748926])
translate ([1.4655062442888385,5.301312162824299,17.384685640749726])
rotate ([-0.03728314029126139, -10.751022418499065, 0.4378785887644302])
scale ([5.371324653210848,0.8296290007622347,2.0656774063473162]) sphere(r=1);

```

Task:

```

//gt label: ***
translate ([-13.754878044128418,-1.4589551184326408,0.03167223767377428])
rotate ([-130.5612156118152, 1.1388244509399705, -6.958652550439094])
cube ([2.460635807365352,2.3930746503175624,2.3262117616832976],center=true);
//gt label: ***
translate ([-0.07860784709919244,-3.1628256291151047,4.195363819599152])
rotate ([-173.73234439557632, 77.8640133450877, -84.83953194451486])
cube ([4.951052926480771,2.581791114062071,0.9215742629021417],center=true);
//gt label: ***
translate ([-4.391236305236816,-1.2839819211512804,-15.079670250415802])
rotate ([107.8511410121114, -65.04627673784022, -17.647871779339702])
cube ([7.169134914875031,1.4960507303476438,0.360361002385624],center=true);
//gt label: ***
translate ([-5.3131526336073875,-2.1989681199193005,0.017225995106855407])
rotate ([90.06938876635326, 0.09602302655894807, -2.462319844903011])
cube ([12.416756451129913,3.3480105921626113,3.316315393894915],center=true);
//gt label: ***
translate ([8.878822177648544,-2.4167807400226597,0.02409586915746332])
rotate ([179.79246555461484, -0.21620657500465373, -0.33374323508761633])
cube ([13.283169046044353,3.4864939376711903,3.396264463663107],center=true);

```



```

//gt label: ***
translate ([17.356667816638947, -2.814698461443186, 0.03309953695861624])
rotate ([72.53444119050451, 89.73536869578345, -107.8894826657378])
cube ([1.7013720702379973, 1.6735716443509072, 1.1193613521755008], center=true);
//gt label: ***
translate ([3.7751861289143567, -3.4400390088558197, -4.794585891067983])
rotate ([-153.61629884770636, -84.13249479045038, 57.786741596795316])
cube ([5.168773345649248, 3.9960995689034524, 1.7041274439543503], center=true);
//gt label: ***
translate ([-4.394926801323891, -1.2792529352009296, 15.070446878671646])
rotate ([-108.04407198002691, 65.01144909189343, -17.875282409222383])
cube ([7.178377956151968, 1.498098615556976, 0.3612455166876477], center=true);

//gt label: ***
translate ([3.775234073400497, -3.440604917705059, 4.806764200329781])
rotate ([26.729296085762712, -83.92278461743443, -122.60319635134954])
cube ([5.179474800825126, 4.009479768574247, 1.7138132546097058], center=true);
//gt label: ***
translate ([-1.278454065322876, -2.111927978694439, -9.177337661385536])
rotate ([114.55364480684531, -70.30537153883601, -22.959150685791794])
cube ([4.869928397238255, 2.8752767294645345, 0.6428824923932591], center=true);
//gt label: ***
translate ([-16.08968436717987, -1.521627577021718, 3.321653418242932])
rotate ([-115.59567814619595, 73.28218546640423, -26.52712823939206])
cube ([5.262804366648199, 1.4352577365934929, 0.1354673760943259], center=true);
//gt label: ***
translate ([-16.616878658533096, 3.770411349833012, 0.05463805631734431])
rotate ([0.06876515030771553, -0.08831176407319571, 97.5747663466869])
cube ([2.4647250212729257, 1.5671994257718742, 0.14074128237552955], center=true);
//gt label: ***
translate ([-15.925291329622269, -1.5076432563364506, -3.3586171828210354])
rotate ([110.77806988286113, -68.15934253758837, -20.309029904131258])
cube ([5.273761115968228, 1.4222018793225337, 0.1354826532769974], center=true);
//gt label: ***
translate ([-15.576755404472351, 0.2548976545222104, 0.01998864725464954])
rotate ([0.5050914169017917, 0.3444020031520882, 67.53598836906558])
cube ([5.254709944128993, 1.9854571856558405, 0.38667230634018807], center=true);
//gt label: ***
translate ([-0.07353749999310824, -3.1678919680416584, -4.189077354967594])
rotate ([173.28404519156922, -77.98195523414104, -84.36781291750843])
cube ([4.959690719842912, 2.5697099231183533, 0.9189965296536695], center=true);
//gt label: ***
translate ([-1.2785014975816014, -2.1098932065069675, 9.173748791217804])
rotate ([-114.59611011215691, 70.25127070173833, -22.933204052317848])
cube ([4.858209043741231, 2.8776821494102527, 0.6448019109666414], center=true);

```

Airplane^{Ellip} Answer: 7

```

//gt label: body
translate ([-13.754878044128418, -1.4589551184326408, 0.03167223767377428])
rotate ([-130.5612156118152, 1.1388244509399705, -6.958652550439094])
cube ([2.460635807365352, 2.3930746503175624, 2.3262117616832976], center=true);
//gt label: wing
translate ([-0.07860784709919244, -3.1628256291151047, 4.195363819599152])
rotate ([-173.73234439557632, 77.8640133450877, -84.83953194451486])
cube ([4.951052926480771, 2.581791114062071, 0.9215742629021417], center=true);

```

```

//gt label: tail
translate([-4.391236305236816,-1.2839819211512804,-15.079670250415802])
rotate([107.8511410121114, -65.04627673784022, -17.647871779339702])
cube([7.169134914875031,1.4960507303476438,0.360361002385624],center=true);
//gt label: body
translate([-5.3131526336073875,-2.1989681199193005,0.017225995106855407])
rotate([90.06938876635326, 0.09602302655894807, -2.462319844903011])
cube([12.416756451129913,3.3480105921626113,3.316315393894915],center=true);
//gt label: body
translate([8.878822177648544,-2.4167807400226597,0.02409586915746332])
rotate([179.79246555461484, -0.21620657500465373, -0.33374323508761633])
cube([13.283169046044353,3.4864939376711903,3.396264463663107],center=true);
//gt label: engine
translate([17.356667816638947,-2.814698461443186,0.03309953695861624])
rotate([72.53444119050451, 89.73536869578345, -107.8894826657378])
cube([1.7013720702379973,1.6735716443509072,1.1193613521755008],center=true);
//gt label: wing
translate([3.7751861289143567,-3.4400390088558197,-4.794585891067983])
rotate([-153.61629884770636, -84.13249479045038, 57.786741596795316])
cube([5.168773345649248,3.9960995689034524,1.7041274439543503],center=true);
//gt label: tail
translate([-4.394926801323891,-1.2792529352009296,15.070446878671646])
rotate([-108.04407198002691, 65.01144909189343, -17.875282409222383])
cube([7.178377956151968,1.498098615556976,0.3612455166876477],center=true);

//gt label: wing
translate([3.775234073400497,-3.440604917705059,4.806764200329781])
rotate([26.729296085762712, -83.92278461743443, -122.60319635134954])
cube([5.179474800825126,4.009479768574247,1.7138132546097058],center=true);
//gt label: body
translate([-1.278454065322876,-2.111927978694439,-9.177337661385536])
rotate([114.55364480684531, -70.30537153883601, -22.959150685791794])
cube([4.869928397238255,2.8752767294645345,0.6428824923932591],center=true);
//gt label: engine
translate([-16.08968436717987,-1.521627577021718,3.321653418242932])
rotate([-115.59567814619595, 73.28218546640423, -26.52712823939206])
cube([5.262804366648199,1.4352577365934929,0.1354673760943259],center=true);
//gt label: tail
translate([-16.616878658533096,3.770411349833012,0.05463805631734431])
rotate([0.06876515030771553, -0.08831176407319571, 97.5747663466869])
cube([2.4647250212729257,1.5671994257718742,0.14074128237552955],center=true);
//gt label: engine
translate([-15.925291329622269,-1.5076432563364506,-3.3586171828210354])
rotate([110.77806988286113, -68.15934253758837, -20.309029904131258])
cube([5.273761115968228,1.4222018793225337,0.1354826532769974],center=true);
//gt label: body
translate([-15.576755404472351,0.2548976545222104,0.01998864725464954])
rotate([0.5050914169017917, 0.3444020031520882, 67.53598836906558])
cube([5.254709944128993,1.9854571856558405,0.38667230634018807],center=true);
//gt label: wing
translate([-0.07353749999310824,-3.1678919680416584,-4.189077354967594])
rotate([173.28404519156922, -77.98195523414104, -84.36781291750843])
cube([4.959690719842912,2.5697099231183533,0.9189965296536695],center=true);
//gt label: body
translate([-1.2785014975816014,-2.1098932065069675,9.173748791217804])
rotate([-114.59611011215691, 70.25127070173833, -22.933204052317848])
cube([4.858209043741231,2.8776821494102527,0.6448019109666414],center=true);

```

Airplane^{Ellip} Question: 8

The following code describes a model airplane.

The airplane is consist of four parts, namely wing, body, tail, and engine.

Please annotate the following code to classify every code block. Block is defined with the 'code' sentence.

Here are an annotation example, please comment the given code following the structure of example.

Notice 1, all annotation should start with '//gt label:'.add()

Notice 2, the labels given in the example program have noting to do with what you will predict for the task program. Please use the metioned parts to label.

Please think step by step

Example:

```
$vpf=1;
$fn=16;
//gt label: body
color ([0.983240378920939,0.004446877803519933,0.8468058652462592])
translate ([0.24157473412544833,-1.557145688844764,-2.66435936741207])
rotate ([88.68075848431147,-0.00021856383221735182,-0.006886489023197046])
scale ([2.561554879597996,16.83919675972151,2.807686834231667]) sphere(r=1);
//gt label: wing
color ([0.0,0.5,1.0])
translate ([-6.39918459498364,-2.38746900273406,-0.7876720522408901])
rotate ([104.62790571647503,-0.8680532723978376,87.69025106314312])
scale ([0.926623315266941,2.7267785985832633,11.099499528822692]) sphere(r=1);
//gt label: wing
color ([0.0,0.5,1.0])
translate ([7.129291283047718,-2.374162492544755,-0.7275716523113459])
rotate ([0.9798473109783928,-14.63333799508122,2.0680431178963024])
scale ([10.82466341879057,0.9289916766726453,2.702962428979252]) sphere(r=1);
//gt label: engine
color ([0.342262306440579,0.9654529077171228,0.6951161119283671])
translate ([-2.130916471714559,-0.8171229906704115,5.754778987687567])
rotate ([-0.380166293278613,1.340017663840917,166.8191922153544])
scale ([1.9273767166811488,1.4683644732703334,3.8095413018827857]) sphere(r=1);
//gt label: engine
color ([0.342262306440579,0.9654529077171228,0.6951161119283671])
translate ([2.453267687688703,-0.8514563917465833,5.671246544174527])
rotate ([0.5324532594958655,4.243010806399205,13.125879425433132])
scale ([2.0789293977229493,1.4903552425296411,3.8719297103259875]) sphere(r=1);
//gt label: tail
color ([0.9694379422232852,0.567936650505983,0.051701624423748926])
translate ([0.24023378956253116,1.6149782130251762,13.543188831080561])
rotate ([90.00648032169254,-38.72605478442989,90.02275117607512])
scale ([4.712729544743248,3.0583757421244746,0.9260936275772427]) sphere(r=1);
//gt label: body
color ([0.983240378920939,0.004446877803519933,0.8468058652462592])
translate ([0.24153832143739515,-1.6049332106890888,-10.444992975048399])
rotate ([-0.0005414635463752507,5.491376383584306,89.98859039186813])
scale ([2.7241349706183313,2.4907823328090752,9.354606724303702]) sphere(r=1);
//gt label: body
color ([0.983240378920939,0.004446877803519933,0.8468058652462592])
translate ([0.24154224109066572,-1.6007473773282508,-10.386243073836617])
rotate ([179.9981336585595,-84.48401150562663,89.99408795583138])
scale ([9.424663756204689,2.4797944756953614,2.710601476871449]) sphere(r=1);
//gt label: body
```

```

color ([0.03531985660368242,0.10997811473592722,0.3586572056561802])
translate ([0.24265388593725537,-3.794661941735641,-13.633564632871877])
rotate ([-89.94175331432587, -8.223475462005972, 89.6715721613241])
scale ([2.0578505714302477,1.1691268290514532,1.0548472890387413]) sphere (r=1);
//gt label: engine
color ([0.342262306440579,0.9654529077171228,0.6951161119283671])
translate ([-2.1495576300050905,-4.328589627276297,-1.1252472015178723])
rotate ([-4.877693565493809, 7.899950628418712, -5.9580767196236835])
scale ([1.1052687287978504,1.5207928645869961,1.1745780868374784]) sphere (r=1);
//gt label: engine
color ([0.342262306440579,0.9654529077171228,0.6951161119283671])
translate ([2.633038308957349,-4.3289049811985185,-1.1256090567811676])
rotate ([82.25044946008136, 4.900259212390922, 95.22509675203334])
scale ([1.5205441447703736,1.1742809058531471,1.1052286414348562]) sphere (r=1);
//gt label: body
color ([0.983240378920939,0.004446877803519933,0.8468058652462592])
translate ([0.2415471406572539,-1.5457576707653378,-0.5452790014121844])
rotate ([-2.8912241736266164, -0.00042186994502188763, -0.006573834493923046])
scale ([2.571353834608327,2.71878802905912,15.465939822404282]) sphere (r=1);
//gt label: tail
color ([0.9694379422232852,0.567936650505983,0.051701624423748926])
translate ([0.24657244794070723,5.287554536176765,17.122698866802715])
rotate ([90.56655233914738, 0.012025533452469409, 0.007279213225184516])
scale ([4.196944508863532,2.2381783179614856,0.8506504575843397]) sphere (r=1);
//gt label: body
color ([0.03531985660368242,0.10997811473592722,0.3586572056561802])
translate ([-1.26775572805301,-2.855904270773349,-3.3077458648577984])
rotate ([-28.317693154913574, -2.8047548504272424, 76.1558961634586])
scale ([1.1072463720389036,2.356197652609452,6.213608967221302]) sphere (r=1);
//gt label: wing
color ([0.0,0.5,1.0])
translate ([2.3268171788557717,-2.6616952503504963,-1.757947566068691])
rotate ([-166.02322816461108, -0.40721552992694054, -87.52926026733635])
scale ([1.0341587354955466,7.321289440859919,3.6386169817136684]) sphere (r=1);
//gt label: wing
color ([0.0,0.5,1.0])
translate ([-0.3055957672388658,-2.6216447677301327,-1.2306152316539185])
rotate ([88.59951820941549, -0.29403556611965814, 89.62164324290538])
scale ([1.1225699001680252,3.9462117721205177,8.110738966775978]) sphere (r=1);
//gt label: wing
color ([0.03531985660368242,0.10997811473592722,0.3586572056561802])
translate ([1.8301643269217533,-2.848327581001365,-1.1353052990592045])
rotate ([-0.05059205012642036, -31.34769503992146, 10.28144408080884])
scale ([3.6129361261492194,1.0977951971733053,4.56920075027839]) sphere (r=1);
//gt label: tail
color ([0.9694379422232852,0.567936650505983,0.051701624423748926])
translate ([-1.1446400424060614,5.304295731627423,17.39638188610906])
rotate ([-89.50391814156252, -77.04482763856267, -0.8576004907138622])
scale ([2.0731409606726277,5.385071233562802,0.8270332103838092]) sphere (r=1);
//gt label: tail
color ([0.9694379422232852,0.567936650505983,0.051701624423748926])
translate ([1.4655062442888385,5.301312162824299,17.384685640749726])
rotate ([-0.03728314029126139, -10.751022418499065, 0.4378785887644302])
scale ([5.371324653210848,0.8296290007622347,2.0656774063473162]) sphere (r=1);

```

Task:

```

//gt label: ***
translate([-17.744829654693604,-0.430249976925552,-2.812629472464323])
rotate([109.54628278179611,-67.44821910385404,-18.676597301557255])
cube([4.80292577296496,1.3747275155037788,0.1127774303313393],center=true);
//gt label: ***
translate([-14.301597625017164,-0.6934788310900333,-0.03058212809264662])
rotate([-128.50664852923367,0.6251240203599325,-9.504609084128793])
cube([3.204482421278968,2.29870596900584,2.084826435893789],center=true);
//gt label: ***
translate([-16.721850037574768,1.0338530782610178,-0.026017392665380612])
rotate([0.49425234860228584,0.14776270423852833,71.35075479544959])
cube([4.3274287506938025,2.0662538893520894,0.38675008807331335],center=true);
//gt label: ***
translate([4.3768709897994995,-3.060211520642042,4.160130359232426])
rotate([-5.229159361927696,-81.16684911915515,-88.20017514034282])
cube([4.763805940747264,3.654159493744377,1.3818683754652792],center=true);
//gt label: ***
translate([0.14538773568347096,-2.3451469652354717,-9.795063436031342])
rotate([-138.12449044434152,80.1568701146726,-48.521086282423894])
cube([5.146000124514106,2.927572280168537,0.5640799924731289],center=true);
//gt label: ***
translate([0.1395721617154778,-2.352468129247427,9.791966304183006])
rotate([139.33973604036166,-80.24403496634767,-49.73937798800217])
cube([5.137044750154021,2.92815847322345,0.5638726428151167],center=true);
//gt label: ***
translate([0.4880200093612075,-2.885601185262203,-4.470735639333725])
rotate([-3.2670617126984935,-80.98235340254361,-88.4849278389839])
cube([4.582867138087751,2.5652199424803266,0.7969965087249888],center=true);
//gt label: ***
translate([-18.29918920993805,3.8204633444547653,-0.022211763862287633])
rotate([-0.03225921756317605,0.06588269045209724,94.89455426434833])
cube([1.9065870717168263,1.35996676050132,0.1350036438088867],center=true);
//gt label: ***
translate([-4.930363856256008,-1.9074390083551407,-0.016253249632427386])
rotate([-179.9438339975719,-0.03410166617695409,-2.913290948596023])
cube([13.805099278688434,3.2583341188728885,3.1610092706978397],center=true);
//gt label: ***
translate([-3.2276695221662526,-1.5527412947267292,14.28232640028])
rotate([-105.93359310550335,63.28230851015245,-11.98841689226413])
cube([8.033440411090854,1.4101956784725238,0.2838211390189947],center=true);

//gt label: ***
translate([-17.90530353784561,-0.4233527835458517,2.74598540738225])
rotate([-113.68592610462156,72.64425720741707,-23.812125606164575])
cube([4.84480548650027,1.3723911438137533,0.11228706222028623],center=true);
//gt label: ***
translate([-3.2160296663641934,-1.5422366373240946,-14.229494035243988])
rotate([106.24634760227764,-63.21570890706951,-11.959269467950147])
cube([8.041014820337296,1.4166125562042031,0.28260418912396074],center=true);
//gt label: ***
translate([10.0747437030077,-1.9083327427506447,-0.0006982492050154837])
rotate([-0.05892903135943894,-0.1617540173190407,0.31280948186522095])
cube([13.750086873769764,3.3232675492763555,3.0810356140136745],center=true);
//gt label: ***
translate([0.48188690561801206,-2.8740322217345238,4.474218785762787])
rotate([176.95603396313686,-81.0974516047518,91.15791240974234])
cube([4.590496048331262,2.5631251372396955,0.7960271183401371],center=true);
//gt label: ***

```

```

translate([18.40419828891754,-2.1205524541437626,0.019635658536572023])
rotate([110.84692527689855,-89.96841412993534,-110.71131177578891])
cube([1.4589620847255034,1.4235505741089898,0.9601690620184421],center=true);
//gt label: ***
translate([4.39149159938097,-3.0657284148037434,-4.154196307063103])
rotate([175.11500242405285,-81.1880658416691,91.50513121070134])
cube([4.7588029131293315,3.6628702282905587,1.38086758553982],center=true);

```

Airplane^{Ellip} Answer: 8

```

//gt label: wing
translate([-17.744829654693604,-0.430249976925552,-2.812629472464323])
rotate([109.54628278179611,-67.44821910385404,-18.676597301557255])
cube([4.80292577296496,1.3747275155037788,0.1127774303313393],center=true);
//gt label: body
translate([-14.301597625017164,-0.6934788310900333,-0.03058212809264662])
rotate([-128.50664852923367,0.6251240203599325,-9.504609084128793])
cube([3.204482421278968,2.29870596900584,2.084826435893789],center=true);
//gt label: body
translate([-16.721850037574768,1.0338530782610178,-0.026017392665380612])
rotate([0.49425234860228584,0.14776270423852833,71.35075479544959])
cube([4.3274287506938025,2.0662538893520894,0.38675008807331335],center=true);
//gt label: wing
translate([4.3768709897994995,-3.060211520642042,4.160130359232426])
rotate([-5.229159361927696,-81.16684911915515,-88.20017514034282])
cube([4.763805940747264,3.654159493744377,1.3818683754652792],center=true);
//gt label: tail
translate([0.14538773568347096,-2.3451469652354717,-9.795063436031342])
rotate([-138.12449044434152,80.1568701146726,-48.521086282423894])
cube([5.146000124514106,2.927572280168537,0.5640799924731289],center=true);
//gt label: tail
translate([0.1395721617154778,-2.352468129247427,9.791966304183006])
rotate([139.33973604036166,-80.24403496634767,-49.73937798800217])
cube([5.137044750154021,2.92815847322345,0.5638726428151167],center=true);
//gt label: body
translate([0.4880200093612075,-2.885601185262203,-4.470735639333725])
rotate([-3.2670617126984935,-80.98235340254361,-88.4849278389839])
cube([4.582867138087751,2.5652199424803266,0.7969965087249888],center=true);
//gt label: engine
translate([-18.29918920993805,3.8204633444547653,-0.022211763862287633])
rotate([-0.03225921756317605,0.06588269045209724,94.89455426434833])
cube([1.9065870717168263,1.35996676050132,0.1350036438088867],center=true);
//gt label: body
translate([-4.930363856256008,-1.9074390083551407,-0.016253249632427386])
rotate([-179.9438339975719,-0.03410166617695409,-2.913290948596023])
cube([13.805099278688434,3.2583341188728885,3.1610092706978397],center=true);
//gt label: tail
translate([-3.2276695221662526,-1.5527412947267292,14.28232640028])
rotate([-105.93359310550335,63.28230851015245,-11.98841689226413])
cube([8.033440411090854,1.4101956784725238,0.2838211390189947],center=true);

//gt label: wing
translate([-17.90530353784561,-0.4233527835458517,2.74598540738225])
rotate([-113.68592610462156,72.64425720741707,-23.812125606164575])
cube([4.84480548650027,1.3723911438137533,0.11228706222028623],center=true);
//gt label: tail

```

```

translate([-3.2160296663641934,-1.5422366373240946,-14.229494035243988])
rotate([106.24634760227764,-63.21570890706951,-11.959269467950147])
cube([8.041014820337296,1.4166125562042031,0.28260418912396074],center=true);
//gt label: body
translate([10.0747437030077,-1.9083327427506447,-0.0006982492050154837])
rotate([-0.05892903135943894,-0.1617540173190407,0.31280948186522095])
cube([13.750086873769764,3.3232675492763555,3.0810356140136745],center=true);
//gt label: wing
translate([0.48188690561801206,-2.8740322217345238,4.474218785762787])
rotate([176.95603396313686,-81.0974516047518,91.15791240974234])
cube([4.590496048331262,2.5631251372396955,0.7960271183401371],center=true);
//gt label: engine
translate([18.40419828891754,-2.1205524541437626,0.019635658536572023])
rotate([110.84692527689855,-89.96841412993534,-110.71131177578891])
cube([1.4589620847255034,1.4235505741089898,0.9601690620184421],center=true);
//gt label: wing
translate([4.39149159938097,-3.0657284148037434,-4.154196307063103])
rotate([175.11500242405285,-81.1880658416691,91.50513121070134])
cube([4.7588029131293315,3.6628702282905587,1.38086758553982],center=true);

```

Airplane^{Ellip} Question: 9

The following code describes a model airplane.

The airplane is consist of four parts, namely wing, body, tail, and engine.

Please annotate the following code to classify every code block. Block is defined with the 'code' sentence.

Here are an annotation example, please comment the given code following the structure of example.

Notice 1, all annotation should start with '//gt label:'.add()

Notice 2, the labels given in the example program have nothing to do with what you will predict for the task program. Please use the metioned parts to label.

Please think step by step

Example:

```

$vpf=1;
$fn=16;
//gt label: body
color([0.983240378920939,0.004446877803519933,0.8468058652462592])
translate([0.24157473412544833,-1.557145688844764,-2.66435936741207])
rotate([88.68075848431147,-0.00021856383221735182,-0.006886489023197046])
scale([2.561554879597996,16.83919675972151,2.807686834231667]) sphere(r=1);
//gt label: wing
color([0.0,0.5,1.0])
translate([-6.39918459498364,-2.38746900273406,-0.7876720522408901])
rotate([104.62790571647503,-0.8680532723978376,87.69025106314312])
scale([0.926623315266941,2.7267785985832633,11.099499528822692]) sphere(r=1);
//gt label: wing
color([0.0,0.5,1.0])
translate([7.129291283047718,-2.374162492544755,-0.7275716523113459])
rotate([0.9798473109783928,-14.63333799508122,2.0680431178963024])
scale([10.82466341879057,0.9289916766726453,2.702962428979252]) sphere(r=1);
//gt label: engine
color([0.342262306440579,0.9654529077171228,0.6951161119283671])
translate([-2.130916471714559,-0.8171229906704115,5.754778987687567])
rotate([-0.380166293278613,1.340017663840917,166.8191922153544])

```

```

scale ([1.9273767166811488,1.4683644732703334,3.8095413018827857]) sphere (r=1);
//gt label: engine
color ([0.342262306440579,0.9654529077171228,0.6951161119283671])
translate ([2.453267687688703,-0.8514563917465833,5.671246544174527])
rotate ([0.5324532594958655, 4.243010806399205, 13.125879425433132])
scale ([2.0789293977229493,1.4903552425296411,3.8719297103259875]) sphere (r=1);
//gt label: tail
color ([0.9694379422232852,0.567936650505983,0.051701624423748926])
translate ([0.24023378956253116,1.6149782130251762,13.543188831080561])
rotate ([90.00648032169254, -38.72605478442989, 90.02275117607512])
scale ([4.712729544743248,3.0583757421244746,0.9260936275772427]) sphere (r=1);
//gt label: body
color ([0.983240378920939,0.004446877803519933,0.8468058652462592])
translate ([0.24153832143739515,-1.6049332106890888,-10.444992975048399])
rotate ([-0.0005414635463752507, 5.491376383584306, 89.98859039186813])
scale ([2.7241349706183313,2.4907823328090752,9.354606724303702]) sphere (r=1);
//gt label: body
color ([0.983240378920939,0.004446877803519933,0.8468058652462592])
translate ([0.24154224109066572,-1.6007473773282508,-10.386243073836617])
rotate ([179.9981336585595, -84.48401150562663, 89.99408795583138])
scale ([9.424663756204689,2.4797944756953614,2.710601476871449]) sphere (r=1);
//gt label: body
color ([0.03531985660368242,0.10997811473592722,0.3586572056561802])
translate ([0.24265388593725537,-3.794661941735641,-13.633564632871877])
rotate ([-89.94175331432587, -8.223475462005972, 89.6715721613241])
scale ([2.0578505714302477,1.1691268290514532,1.0548472890387413]) sphere (r=1);
//gt label: engine
color ([0.342262306440579,0.9654529077171228,0.6951161119283671])
translate ([-2.1495576300050905,-4.328589627276297,-1.1252472015178723])
rotate ([-4.877693565493809, 7.899950628418712, -5.9580767196236835])
scale ([1.1052687287978504,1.5207928645869961,1.1745780868374784]) sphere (r=1);
//gt label: engine
color ([0.342262306440579,0.9654529077171228,0.6951161119283671])
translate ([2.633038308957349,-4.3289049811985185,-1.1256090567811676])
rotate ([82.25044946008136, 4.900259212390922, 95.22509675203334])
scale ([1.5205441447703736,1.1742809058531471,1.1052286414348562]) sphere (r=1);
//gt label: body
color ([0.983240378920939,0.004446877803519933,0.8468058652462592])
translate ([0.2415471406572539,-1.5457576707653378,-0.5452790014121844])
rotate ([-2.8912241736266164, -0.00042186994502188763, -0.006573834493923046])
scale ([2.571353834608327,2.71878802905912,15.465939822404282]) sphere (r=1);
//gt label: tail
color ([0.9694379422232852,0.567936650505983,0.051701624423748926])
translate ([0.24657244794070723,5.287554536176765,17.122698866802715])
rotate ([90.56655233914738, 0.012025533452469409, 0.007279213225184516])
scale ([4.196944508863532,2.2381783179614856,0.8506504575843397]) sphere (r=1);
//gt label: body
color ([0.03531985660368242,0.10997811473592722,0.3586572056561802])
translate ([-1.26775572805301,-2.855904270773349,-3.3077458648577984])
rotate ([-28.317693154913574, -2.8047548504272424, 76.1558961634586])
scale ([1.1072463720389036,2.356197652609452,6.213608967221302]) sphere (r=1);
//gt label: wing
color ([0.0,0.5,1.0])
translate ([2.3268171788557717,-2.6616952503504963,-1.757947566068691])
rotate ([-166.02322816461108, -0.40721552992694054, -87.52926026733635])
scale ([1.0341587354955466,7.321289440859919,3.6386169817136684]) sphere (r=1);
//gt label: wing
color ([0.0,0.5,1.0])

```



```

translate([-0.3055957672388658,-2.6216447677301327,-1.2306152316539185])
rotate([88.59951820941549,-0.29403556611965814,89.62164324290538])
scale([1.1225699001680252,3.9462117721205177,8.110738966775978]) sphere(r=1);
//gt label: wing
color([0.03531985660368242,0.10997811473592722,0.3586572056561802])
translate([1.8301643269217533,-2.848327581001365,-1.1353052990592045])
rotate([-0.05059205012642036,-31.34769503992146,10.28144408080884])
scale([3.6129361261492194,1.0977951971733053,4.56920075027839]) sphere(r=1);
//gt label: tail
color([0.9694379422232852,0.567936650505983,0.051701624423748926])
translate([-1.1446400424060614,5.304295731627423,17.39638188610906])
rotate([-89.50391814156252,-77.04482763856267,-0.8576004907138622])
scale([2.0731409606726277,5.385071233562802,0.8270332103838092]) sphere(r=1);
//gt label: tail
color([0.9694379422232852,0.567936650505983,0.051701624423748926])
translate([1.4655062442888385,5.301312162824299,17.384685640749726])
rotate([-0.03728314029126139,-10.751022418499065,0.4378785887644302])
scale([5.371324653210848,0.8296290007622347,2.0656774063473162]) sphere(r=1);

```

Task:

```

//gt label: ***
translate([1.5379204042255878,-3.227167949080467,-6.3172900676727295])
rotate([97.1262167923495,87.25562385375517,-171.83780961415437])
cube([4.067838452756413,3.185176160186539,1.0079878475517063],center=true);
//gt label: ***
translate([-15.861476808786392,2.865815069526434,4.376514069736004])
rotate([-133.09915450770217,78.93165406355163,-41.339716660841084])
cube([2.700395323336145,1.9595001637935963,0.22765314904973308],center=true);
//gt label: ***
translate([-1.266733380034566,-1.9144604168832302,-14.349747002124786])
rotate([66.30480939509344,82.91899031387888,155.6666353114684])
cube([4.616140201687818,3.2956336997449456,0.3755966690369005],center=true);
//gt label: ***
translate([-18.74084234237671,-0.7481788797304034,-0.018264323298353674])
rotate([-90.3367547922255,0.43941194456662264,-99.63211956933394])
cube([3.973097689449797,3.7492879107594534,2.205704525113123],center=true);
//gt label: ***
translate([-1.2532225623726845,-2.019860427826643,5.814606472849846])
rotate([-27.956041599082944,-88.98093705785995,119.3737218433035])
cube([3.563234210014345,1.6704856790602218,0.3831672878004618],center=true);
//gt label: ***
translate([1.5317558497190475,-3.245669398456812,6.315561607480049])
rotate([-98.99188665652265,-87.27987052351041,-170.13743604175312])
cube([4.055972397327425,3.1934785470366487,1.0127947945147766],center=true);
//gt label: ***
translate([-0.44552055187523365,-2.1844007819890976,9.866967871785164])
rotate([89.09857333755045,-3.7221445943485123,-0.5785436378204852])
cube([4.114125370979309,3.3347850851714647,0.3903822670690801],center=true);
//gt label: ***
translate([-1.2449732422828674,-1.9946955144405367,-5.819782018661499])
rotate([-164.40473879540548,89.09340782190257,107.06671287748098])
cube([3.559908829629422,1.6676128003746284,0.3743273438885852],center=true);
//gt label: ***
translate([17.7198526263237,-2.0364367216825485,-0.012089737938367737])
rotate([-58.44085635399219,-89.6686644536583,-120.91141326043417])
cube([1.8085639551281938,0.9368238877505299,0.4937154147774409],center=true);

```

```

//gt label: ***
translate([-0.6478673359379171, -2.020597625523805, -0.02491513849236071])
rotate([89.93857628703189, 0.0425459403879334, -0.3141172142512432])
cube([13.400581404566768, 6.837305389344693, 6.3146010786294955], center=true);
//gt label: ***
translate([-1.25363377854228, -1.992645375430584, 14.331333041191101])
rotate([-65.03958423942369, -83.22311657857922, 154.3610847499535])
cube([4.595642089843752, 3.310050237923865, 0.38159024203196207], center=true);

//gt label: ***
translate([11.498518735170364, -2.830627914518118, -0.0202592762070708])
rotate([90.36767205214585, 0.4214890946225669, -2.104899036616709])
cube([10.211443677544596, 6.481690071523192, 5.458570308983333], center=true);
//gt label: ***
translate([-15.94958320260048, 2.9519770480692387, -4.418304860591888])
rotate([30.725227974659525, 79.88779494462318, 121.69880396065606])
cube([2.6238515414297883, 1.9309438951313895, 0.2226733253337557], center=true);
//gt label: ***
translate([-12.366350814700127, -1.2520739436149593, -0.11220551561564213])
rotate([-103.72396532612704, 1.6194972180467142, -11.276210438047501])
cube([8.875710293650632, 6.459756493568821, 6.458946354687616], center=true);
//gt label: ***
translate([-16.244198381900787, 3.9770762622356415, 0.020410927536431714])
rotate([0.06403017678452493, -0.03616582926434156, 96.26688212727105])
cube([3.3333526924252554, 3.012598548084502, 0.8539620880037552], center=true);
//gt label: ***
translate([-0.45887780375778675, -2.1787054277956486, -9.841369614005089])
rotate([-88.88397617834991, 3.8253918632044974, -0.9102185858638672])
cube([4.128761962056161, 3.3460956811904916, 0.3965248214080952], center=true);

```

Airplane^{Ellip} Answer: 9

```

//gt label: body
translate([1.5379204042255878, -3.227167949080467, -6.3172900676727295])
rotate([97.1262167923495, 87.25562385375517, -171.83780961415437])
cube([4.067838452756413, 3.185176160186539, 1.0079878475517063], center=true);
//gt label: tail
translate([-15.861476808786392, 2.865815069526434, 4.376514069736004])
rotate([-133.09915450770217, 78.93165406355163, -41.339716660841084])
cube([2.700395323336145, 1.9595001637935963, 0.22765314904973308], center=true);
//gt label: body
translate([-1.266733380034566, -1.9144604168832302, -14.349747002124786])
rotate([66.30480939509344, 82.91899031387888, 155.6666353114684])
cube([4.616140201687818, 3.2956336997449456, 0.3755966690369005], center=true);
//gt label: wing
translate([-18.74084234237671, -0.7481788797304034, -0.018264323298353674])
rotate([-90.3367547922255, 0.43941194456662264, -99.63211956933394])
cube([3.973097689449797, 3.7492879107594534, 2.205704525113123], center=true);
//gt label: engine
translate([-1.2532225623726845, -2.019860427826643, 5.814606472849846])
rotate([-27.956041599082944, -88.98093705785995, 119.3737218433035])
cube([3.563234210014345, 1.6704856790602218, 0.3831672878004618], center=true);
//gt label: body
translate([1.5317558497190475, -3.245669398456812, 6.315561607480049])
rotate([-98.99188665652265, -87.27987052351041, -170.13743604175312])
cube([4.055972397327425, 3.1934785470366487, 1.0127947945147766], center=true);

```

```

//gt label: engine
translate([-0.44552055187523365, -2.1844007819890976, 9.866967871785164])
rotate([89.09857333755045, -3.7221445943485123, -0.5785436378204852])
cube([4.114125370979309, 3.3347850851714647, 0.3903822670690801], center=true);
//gt label: engine
translate([-1.2449732422828674, -1.9946955144405367, -5.819782018661499])
rotate([-164.40473879540548, 89.09340782190257, 107.06671287748098])
cube([3.559908829629422, 1.6676128003746284, 0.3743273438885852], center=true);
//gt label: tail
translate([17.7198526263237, -2.0364367216825485, -0.012089737938367737])
rotate([-58.44085635399219, -89.6686644536583, -120.91141326043417])
cube([1.8085639551281938, 0.9368238877505299, 0.4937154147774409], center=true);
//gt label: body
translate([-0.6478673359379171, -2.020597625523805, -0.02491513849236071])
rotate([89.93857628703189, 0.0425459403879334, -0.3141172142512432])
cube([13.400581404566768, 6.837305389344693, 6.3146010786294955], center=true);
//gt label: body
translate([-1.25363377854228, -1.992645375430584, 14.331333041191101])
rotate([-65.03958423942369, -83.22311657857922, 154.3610847499535])
cube([4.595642089843752, 3.310050237923865, 0.38159024203196207], center=true);

//gt label: wing
translate([11.498518735170364, -2.830627914518118, -0.0202592762070708])
rotate([90.36767205214585, 0.4214890946225669, -2.104899036616709])
cube([10.211443677544596, 6.481690071523192, 5.458570308983333], center=true);
//gt label: tail
translate([-15.94958320260048, 2.9519770480692387, -4.418304860591888])
rotate([30.725227974659525, 79.88779494462318, 121.69880396065606])
cube([2.6238515414297883, 1.9309438951313895, 0.2226733253337557], center=true);
//gt label: wing
translate([-12.366350814700127, -1.2520739436149593, -0.11220551561564213])
rotate([-103.72396532612704, 1.6194972180467142, -11.276210438047501])
cube([8.875710293650632, 6.459756493568821, 6.458946354687616], center=true);
//gt label: tail
translate([-16.244198381900787, 3.9770762622356415, 0.020410927536431714])
rotate([0.06403017678452493, -0.03616582926434156, 96.26688212727105])
cube([3.3333526924252554, 3.012598548084502, 0.8539620880037552], center=true);
//gt label: engine
translate([-0.45887780375778675, -2.1787054277956486, -9.841369614005089])
rotate([-88.88397617834991, 3.8253918632044974, -0.9102185858638672])
cube([4.128761962056161, 3.3460956811904916, 0.3965248214080952], center=true);

```

Airplane^{Cube} Question: 0

The following code describes a model airplane.

The airplane is consist of four parts, namely wing, body, tail, and engine.

Please annotate the following code to classify every code block. Block is defined with the 'code' sentence.

Here are an annotation example, please comment the given code following the structure of example.

Notice 1, all annotation should start with '//gt label:'.add()

Notice 2, the labels given in the example program have noting to do with what you will predict for the task program. Please use the metioned parts to label.

Please think step by step

Example:

```

$vpf=10;
//gt label: body
color ([1.0 ,0.0 ,1.0])
translate ([9.250219017267227, -2.7869662642478943, -0.008156453259289322])
rotate ([-179.78543394629193, -0.2159261053351588, -2.3822341519711294])
cube ([12.607995122671129, 4.187371432781223, 3.7102610990405083], center=true);
//gt label: wing
color ([0.0 ,0.5 ,1.0])
translate ([-5.955269038677215, -2.538721188902855, -15.464503020048141])
rotate ([102.14512608409758, -70.4738708896967, -10.544348599040614])
cube ([6.423201896250253, 2.4891043826937786, 0.352352557238204], center=true);
//gt label: body
color ([1.0 ,0.0 ,1.0])
translate ([-13.456687927246094, -0.8307515271008015, -0.053393583802971954])
rotate ([90.48750093436946, 39.4193184735338, 82.3074203037256])
cube ([3.2380105741322205, 3.087527584284884, 3.074986208230599], center=true);
//gt label: wing
color ([0.0 ,0.5 ,1.0])
translate ([-3.0888161435723305, -2.9815239645540714, 10.20038940012455])
rotate ([-77.24801015480405, -73.14456579408406, 168.52065000478333])
cube ([4.764881618320958, 3.9973920211196146, 0.6270741811022208], center=true);
//gt label: wing
color ([0.0 ,0.5 ,1.0])
translate ([-2.3069106228649616, -3.453640080988407, 5.067141279578209])
rotate ([-14.840335154128773, -85.67072608688505, 103.14779084500344])
cube ([4.478208012878897, 2.742571923881772, 0.8824746124446424], center=true);
//gt label: tail
color ([1.0 ,0.5 ,0.0])
translate ([-15.14525830745697, -2.1386545710265636, 4.398029260337353])
rotate ([-97.26073421269203, 73.53773194259227, -7.857569898943973])
cube ([6.187138408422474, 2.1074002981185984, 0.14533865149134137], center=true);
//gt label: engine
color ([0.5 ,0.75 ,0.5])
translate ([1.7339041456580162, -3.9094237238168716, -5.73966309428215])
rotate ([122.74698251237912, 83.2193008318756, -148.62097763190738])
cube ([5.822300128638749, 4.8442387580871635, 1.6862346231937435], center=true);
//gt label: body
color ([1.0 ,0.0 ,1.0])
translate ([-4.661916941404343, -2.4578636325895786, -0.0037767807953061052])
rotate ([-179.83167033907282, 0.08575659880190455, -7.585001348801497])
cube ([12.934949472546581, 4.321432821452619, 3.9644836634397516], center=true);
//gt label: body
color ([1.0 ,0.0 ,1.0])
translate ([17.47809112071991, -3.1384810991585255, -0.013883557548979323])
rotate ([-155.09306989154229, 89.77337564724621, 24.290506036694723])
cube ([1.5893155615776815, 1.4067392703146249, 1.014795145019961], center=true);
//gt label: engine
color ([0.5 ,0.75 ,0.5])
translate ([1.735662519931793, -3.925429806113243, 5.74006550014019])
rotate ([-124.81888217218437, -83.2310042331682, -146.24604039789486])
cube ([5.833983421325687, 4.84729737043381, 1.6854473296552923], center=true);
//gt label: tail
color ([1.0 ,0.5 ,0.0])
translate ([-17.251052260398865, 4.747964590787888, -0.01069172205461655])
rotate ([0.12331621659602246, -0.338651121781824, 101.80605090791137])
cube ([2.4825835227966673, 1.8788958527148234, 0.20174257340841006], center=true);
//gt label: wing

```

```

color ([0.0 ,0.5 ,1.0])
translate ([-3.0894965864717956, -2.9681333154439926, -10.202635824680328])
rotate ([77.24514710513878, 73.15612006556658, 168.63426145968305])
cube ([4.768844209611418, 3.9913301169872293, 0.629796823486688], center=true);
//gt label: wing
color ([0.0 ,0.5 ,1.0])
translate ([-2.3071946017444134, -3.455677106976509, -5.0834157690405855])
rotate ([16.77675236368178, 85.65319604123253, 105.57186497593746])
cube ([4.497303031384947, 2.730496060103179, 0.8894881326705244], center=true);
//gt label: tail
color ([1.0 ,0.5 ,0.0])
translate ([-15.937966704368591, 1.0895324032753708, -0.02831026184139773])
rotate ([-0.3232861672747573, 0.5708163948743981, 73.3102113520645])
cube ([5.618372149765493, 2.009373698383577, 0.506643163971603], center=true);
//gt label: tail
color ([1.0 ,0.5 ,0.0])
translate ([-15.001116693019867, -2.1231980063021183, -4.4619785994291306])
rotate ([96.46600811574525, -69.77824239923142, -6.502507497427613])
cube ([6.3349770754575765, 2.0700482651591328, 0.14695360208862068], center=true);
//gt label: wing
color ([0.0 ,0.5 ,1.0])
translate ([-5.956139415502548, -2.54578173160553, 15.436067432165146])
rotate ([-101.29689758859499, 70.52081234569397, -10.112066769377915])
cube ([6.4112526550889095, 2.4928508140146914, 0.3505952330306386], center=true);

```

Task:

```

//gt label: ***
translate ([0.15211068210192036, -3.940819166600704, -3.8314110785722737])
rotate ([-167.92164333392125, -83.47423338843586, -101.97831115012755])
cube ([4.199914038181307, 2.3692896775901326, 0.8531630644574768], center=true);
//gt label: ***
translate ([-18.138041645288467, -1.3327325507998466, -3.4679336845874786])
rotate ([112.54633972019874, -68.63369964883897, -22.8044706787177])
cube ([5.48646703362465, 1.4016167912632265, 0.1192448392976122], center=true);
//gt label: ***
translate ([-0.7694108085706831, -3.401900604367256, -8.452712073922157])
rotate ([110.30140899253772, -76.32257784064667, -19.43716380306151])
cube ([4.622301273047927, 2.590262126177552, 0.5367324780672811], center=true);
//gt label: ***
translate ([0.16497560660354793, -3.9487890154123306, 3.8413323089480405])
rotate ([167.5062758456813, 83.53026105728806, -102.1632179658437])
cube ([4.192828088998795, 2.3708329163491735, 0.8533036196604387], center=true);
//gt label: ***
translate ([9.9213844537735, -3.030048292130232, 0.015458189445780597])
rotate ([179.99111833310496, -0.3136541546803373, -0.3479469329746344])
cube ([14.514621943235401, 3.5595400258898775, 3.3572911284863993], center=true);
//gt label: ***
translate ([-16.979714334011078, 0.22976583102717996, -0.0050979305524378946])
rotate ([0.21886454615984383, 0.6345535921042724, 73.02517312896761])
cube ([5.4412898048758525, 2.15925000607968, 0.457190065644682], center=true);
//gt label: ***
translate ([-0.7638943241909145, -3.4050163812935352, 8.457721248269081])
rotate ([-110.78278713957445, 76.2917353364514, -19.769320414566955])
cube ([4.614250287413598, 2.5918871164321904, 0.5365997087210455], center=true);
//gt label: ***
translate ([-15.074674189090729, -1.7249471321702003, 0.004567506257444525])

```

```

rotate([-130.32339074715486, 0.9322074454637863, -10.272641000509907])
cube([2.6874679327011197,2.552479617297667,2.4472558125853663],center=true);
//gt label: ***
translate([-18.25397551059723,4.169581979513168,0.019402902398724102])
rotate([179.95081089499456, -0.15121620496685415, -83.39861676374602])
cube([2.8596763312816647,1.5816534589976101,0.14219020726159254],center=true);
//gt label: ***
translate([-18.23992818593979,-1.3331068865954876,3.3869865909218793])
rotate([-115.31114244967323, 72.19267551449406, -26.788785586062886])
cube([5.484133325517179,1.4128672517836138,0.12016741209665482],center=true);
//gt label: ***
translate([3.5951648280024533,-4.504960626363754,-3.9638251438736916])
rotate([-177.33952817471692, -83.04299989332627, 83.71547640244957])
cube([4.381989985704424,3.589124232530597,1.4678625483065875],center=true);
//gt label: ***
translate([-3.0519824847579002,-2.776682786643505,14.160122871398926])
rotate([-110.44930620797955, 70.48855763975978, -20.91218484869099])
cube([6.701969578862192,1.3487752061337308,0.2984280721284608],center=true);

//gt label: ***
translate([-3.0432422459125523,-2.769499309360981,-14.141722023487093])
rotate([110.28041958843485, -70.41431045187099, -20.731363741013677])
cube([6.709006354212766,1.3475078530609612,0.29589290497824705],center=true);
//gt label: ***
translate([3.59521072357893,-4.506650976836681,3.962673246860504])
rotate([3.198273128481802, -82.95772282547932, -96.84383542482172])
cube([4.37215685844422,3.598536513745792,1.4704217389226009],center=true);
//gt label: ***
translate([18.815257102251053,-3.3718490414321423,0.0193661564844661])
rotate([90.08739449602585, -0.09800786469819125, -90.05765042322027])
cube([1.7534650862217243,1.6840452607721097,1.1653851903975494],center=true);
//gt label: ***
translate([-5.830232277512551,-2.8542086109519,0.006996251759119387])
rotate([179.99371823902078, 0.02610469870305648, -2.494284544592666])
cube([13.805754929780964,3.4458296373486608,3.3688312023878204],center=true);

```

Airplane^{Cube} Answer: 0

```

//gt label: wing
translate([0.15211068210192036,-3.940819166600704,-3.8314110785722737])
rotate([-167.92164333392125, -83.47423338843586, -101.97831115012755])
cube([4.199914038181307,2.3692896775901326,0.8531630644574768],center=true);
//gt label: tail
translate([-18.138041645288467,-1.3327325507998466,-3.4679336845874786])
rotate([112.54633972019874, -68.63369964883897, -22.8044706787177])
cube([5.48646703362465,1.4016167912632265,0.1192448392976122],center=true);
//gt label: wing
translate([-0.7694108085706831,-3.401900604367256,-8.452712073922157])
rotate([110.30140899253772, -76.32257784064667, -19.43716380306151])
cube([4.622301273047927,2.590262126177552,0.5367324780672811],center=true);
//gt label: wing
translate([0.16497560660354793,-3.9487890154123306,3.8413323089480405])
rotate([167.5062758456813, 83.53026105728806, -102.1632179658437])
cube([4.192828088998795,2.3708329163491735,0.8533036196604387],center=true);
//gt label: body
translate([9.9213844537735,-3.030048292130232,0.015458189445780597])

```

```

rotate([179.99111833310496, -0.3136541546803373, -0.3479469329746344])
cube([14.514621943235401,3.5595400258898775,3.3572911284863993],center=true);
//gt label: tail
translate([-16.979714334011078,0.22976583102717996,-0.0050979305524378946])
rotate([0.21886454615984383, 0.6345535921042724, 73.02517312896761])
cube([5.4412898048758525,2.15925000607968,0.457190065644682],center=true);
//gt label: wing
translate([-0.7638943241909145, -3.4050163812935352,8.457721248269081])
rotate([-110.78278713957445, 76.2917353364514, -19.769320414566955])
cube([4.614250287413598,2.5918871164321904,0.5365997087210455],center=true);
//gt label: body
translate([-15.074674189090729, -1.7249471321702003,0.004567506257444525])
rotate([-130.32339074715486, 0.9322074454637863, -10.272641000509907])
cube([2.6874679327011197,2.552479617297667,2.4472558125853663],center=true);
//gt label: tail
translate([-18.25397551059723,4.169581979513168,0.019402902398724102])
rotate([179.95081089499456, -0.15121620496685415, -83.39861676374602])
cube([2.8596763312816647,1.5816534589976101,0.14219020726159254],center=true);
//gt label: tail
translate([-18.23992818593979, -1.3331068865954876,3.3869865909218793])
rotate([-115.31114244967323, 72.19267551449406, -26.788785586062886])
cube([5.484133325517179,1.4128672517836138,0.12016741209665482],center=true);
//gt label: engine
translate([3.5951648280024533, -4.504960626363754, -3.9638251438736916])
rotate([-177.33952817471692, -83.04299989332627, 83.71547640244957])
cube([4.381989985704424,3.589124232530597,1.4678625483065875],center=true);
//gt label: wing
translate([-3.0519824847579002, -2.776682786643505,14.160122871398926])
rotate([-110.44930620797955, 70.48855763975978, -20.91218484869099])
cube([6.701969578862192,1.3487752061337308,0.2984280721284608],center=true);

//gt label: wing
translate([-3.0432422459125523, -2.769499309360981, -14.141722023487093])
rotate([110.28041958843485, -70.41431045187099, -20.731363741013677])
cube([6.709006354212766,1.3475078530609612,0.29589290497824705],center=true);
//gt label: engine
translate([3.59521072357893, -4.506650976836681,3.962673246860504])
rotate([3.198273128481802, -82.95772282547932, -96.84383542482172])
cube([4.37215685844422,3.598536513745792,1.4704217389226009],center=true);
//gt label: engine
translate([18.815257102251053, -3.3718490414321423,0.0193661564844661])
rotate([90.08739449602585, -0.09800786469819125, -90.05765042322027])
cube([1.7534650862217243,1.6840452607721097,1.1653851903975494],center=true);
//gt label: body
translate([-5.830232277512551, -2.8542086109519,0.006996251759119387])
rotate([179.99371823902078, 0.02610469870305648, -2.494284544592666])
cube([13.805754929780964,3.4458296373486608,3.3688312023878204],center=true);

```

Airplane^{Cube} Question: 1

The following code describes a model airplane.

The airplane is consist of four parts, namely wing, body, tail, and engine.

Please annotate the following code to classify every code block. Block is defined with the 'code' sentence.

Here are an annotation example, please comment the given code following the structure

of example.

Notice 1, all annotation should start with '//gt label:'.add()

Notice 2, the labels given in the example program have nothing to do with what you will predict for the task program. Please use the metioned parts to label.

Please think step by step

Example:

```
$vpf=10;
//gt label: body
color ([1.0 ,0.0 ,1.0])
translate ([9.250219017267227, -2.7869662642478943, -0.008156453259289322])
rotate ([-179.78543394629193, -0.2159261053351588, -2.3822341519711294])
cube ([12.607995122671129, 4.187371432781223, 3.7102610990405083], center=true);
//gt label: wing
color ([0.0 ,0.5 ,1.0])
translate ([-5.955269038677215, -2.538721188902855, -15.464503020048141])
rotate ([102.14512608409758, -70.4738708896967, -10.544348599040614])
cube ([6.423201896250253, 2.4891043826937786, 0.352352557238204], center=true);
//gt label: body
color ([1.0 ,0.0 ,1.0])
translate ([-13.456687927246094, -0.8307515271008015, -0.053393583802971954])
rotate ([90.48750093436946, 39.4193184735338, 82.3074203037256])
cube ([3.2380105741322205, 3.087527584284884, 3.074986208230599], center=true);
//gt label: wing
color ([0.0 ,0.5 ,1.0])
translate ([-3.0888161435723305, -2.9815239645540714, 10.20038940012455])
rotate ([-77.24801015480405, -73.14456579408406, 168.52065000478333])
cube ([4.764881618320958, 3.9973920211196146, 0.6270741811022208], center=true);
//gt label: wing
color ([0.0 ,0.5 ,1.0])
translate ([-2.3069106228649616, -3.453640080988407, 5.067141279578209])
rotate ([-14.840335154128773, -85.67072608688505, 103.14779084500344])
cube ([4.478208012878897, 2.742571923881772, 0.8824746124446424], center=true);
//gt label: tail
color ([1.0 ,0.5 ,0.0])
translate ([-15.14525830745697, -2.1386545710265636, 4.398029260337353])
rotate ([-97.26073421269203, 73.53773194259227, -7.857569898943973])
cube ([6.187138408422474, 2.1074002981185984, 0.14533865149134137], center=true);
//gt label: engine
color ([0.5 ,0.75 ,0.5])
translate ([1.7339041456580162, -3.9094237238168716, -5.73966309428215])
rotate ([122.74698251237912, 83.2193008318756, -148.62097763190738])
cube ([5.822300128638749, 4.8442387580871635, 1.6862346231937435], center=true);
//gt label: body
color ([1.0 ,0.0 ,1.0])
translate ([-4.661916941404343, -2.4578636325895786, -0.0037767807953061052])
rotate ([-179.83167033907282, 0.08575659880190455, -7.585001348801497])
cube ([12.934949472546581, 4.321432821452619, 3.9644836634397516], center=true);
//gt label: body
color ([1.0 ,0.0 ,1.0])
translate ([17.47809112071991, -3.1384810991585255, -0.013883557548979323])
rotate ([-155.09306989154229, 89.77337564724621, 24.290506036694723])
cube ([1.5893155615776815, 1.4067392703146249, 1.014795145019961], center=true);
//gt label: engine
color ([0.5 ,0.75 ,0.5])
translate ([1.735662519931793, -3.925429806113243, 5.74006550014019])
rotate ([-124.81888217218437, -83.2310042331682, -146.24604039789486])
cube ([5.833983421325687, 4.84729737043381, 1.6854473296552923], center=true);
```



```

//gt label: tail
color ([1.0 ,0.5 ,0.0])
translate ([-17.251052260398865,4.747964590787888,-0.01069172205461655])
rotate ([0.12331621659602246, -0.338651121781824, 101.80605090791137])
cube ([2.4825835227966673,1.8788958527148234,0.20174257340841006],center=true);
//gt label: wing
color ([0.0 ,0.5 ,1.0])
translate ([-3.0894965864717956,-2.9681333154439926,-10.202635824680328])
rotate ([77.24514710513878, 73.15612006556658, 168.63426145968305])
cube ([4.768844209611418,3.9913301169872293,0.629796823486688],center=true);
//gt label: wing
color ([0.0 ,0.5 ,1.0])
translate ([-2.3071946017444134,-3.455677106976509,-5.0834157690405855])
rotate ([16.77675236368178, 85.65319604123253, 105.57186497593746])
cube ([4.497303031384947,2.730496060103179,0.8894881326705244],center=true);
//gt label: tail
color ([1.0 ,0.5 ,0.0])
translate ([-15.937966704368591,1.0895324032753708,-0.02831026184139773])
rotate ([-0.3232861672747573, 0.5708163948743981, 73.3102113520645])
cube ([5.618372149765493,2.009373698383577,0.506643163971603],center=true);
//gt label: tail
color ([1.0 ,0.5 ,0.0])
translate ([-15.001116693019867,-2.1231980063021183,-4.4619785994291306])
rotate ([96.46600811574525, -69.77824239923142, -6.502507497427613])
cube ([6.3349770754575765,2.0700482651591328,0.14695360208862068],center=true);
//gt label: wing
color ([0.0 ,0.5 ,1.0])
translate ([-5.956139415502548,-2.54578173160553,15.436067432165146])
rotate ([-101.29689758859499, 70.52081234569397, -10.112066769377915])
cube ([6.4112526550889095,2.4928508140146914,0.3505952330306386],center=true);

```

Task:

```

//gt label: ***
translate ([-1.2090794183313844,-2.39425728097558,-8.642287850379944])
rotate ([115.2356276748709, -74.36285237906799, -23.796308287756684])
cube ([4.549195356667054,2.962181642651576,0.5826913658529642],center=true);
//gt label: ***
translate ([3.2827888801693916,-3.7463440373539925,4.486278258264065])
rotate ([5.763582958161343, -84.35247507826415, -99.1976935652948])
cube ([4.696845114231117,3.9415006339550103,1.4838621765375144],center=true);
//gt label: ***
translate ([3.2858493365347385,-3.7494206801056866,-4.478634186089039])
rotate ([-174.4424970819488, -84.32345993974258, 80.97624640896319])
cube ([4.700984731316581,3.9289867132902314,1.4795199222862805],center=true);
//gt label: ***
translate ([-18.57037141919136,3.960353471338749,0.010860398542718032])
rotate ([0.0583913655830972, 0.29460563774497545, 97.54395652116982])
cube ([2.8469880484044787,1.7371205240488408,0.16724910237826446],center=true);
//gt label: ***
translate ([-3.8126922398805623,-1.661948999390006,-13.838217854499819])
rotate ([108.9185810407197, -68.89575497242774, -19.104765967933826])
cube ([6.259281337261205,1.6732768062502206,0.32410754356534577],center=true);
//gt label: ***
translate ([-14.985372871160505,-1.6932213027030232,0.017578401166247384])
rotate ([-129.11672595006985, 1.4365185575016923, -5.91875990135237])
cube ([2.767746057361449,2.6511936262250693,2.5154695473611732],center=true);

```

```

//gt label: ***
translate([-17.15000495314598,0.1767136692069471,-0.014859895018162206])
rotate([0.23945260788361308, 0.9662714921344305, 65.85160814176284])
cube([5.703376904129986,2.284846119582665,0.47554199583828477],center=true);
//gt label: ***
translate([-1.2060251086950302,-2.3856407962739468,8.632851392030716])
rotate([-116.06612268142278, 74.25147638894713, -24.488883650841263])
cube([4.538758210837845,2.9628637246787597,0.5826405528932886],center=true);
//gt label: ***
translate([-17.7386337518692,-1.6821485850960014,-3.6005014181137085])
rotate([115.54155105838161, -68.46903206821945, -25.373668594153667])
cube([5.481317713856701,1.6346948128193666,0.12983383494430006],center=true);
//gt label: ***
translate([-0.22363933501765132,-3.3783567883074284,4.0274179726839066])
rotate([-5.691028493805405, -80.30438112928186, 95.55512198454505])
cube([4.3613525480031985,2.4688906595110898,0.8301708148792393],center=true);
//gt label: ***
translate([19.155228585004807,-2.840406745672226,0.014593831292586401])
rotate([45.898682719080014, 89.84470967418689, -134.61131681147813])
cube([1.651420677080801,1.6406363435090274,1.2112336419523233],center=true);
//gt label: ***
translate([10.233398154377937,-2.542352061718702,0.016752978699514757])
rotate([0.07293735511468132, -0.32311898947117834, 0.14980733420051667])
cube([14.565475881099708,3.5536899790167817,3.2618002593517312],center=true);
//gt label: ***
translate([-3.83928831666708,-1.6292880475521088,13.84933277964592])
rotate([-109.57229119755522, 68.75098238431028, -19.78820746926253])
cube([6.254601627588276,1.677151499316103,0.32551002223044884],center=true);

//gt label: ***
translate([-17.88649618625641,-1.6755205672234297,3.5308007895946503])
rotate([-121.40486008933163, 72.67759078536278, -32.405874641961816])
cube([5.450109541416168,1.647915402427319,0.1307015737984354],center=true);
//gt label: ***
translate([-5.481415241956711,-2.4164217710494995,0.005415466730482876])
rotate([-179.91672024987184, 0.10720704194893887, -1.7747561875698454])
cube([13.972000181674963,3.3922076225281037,3.3860469609499253],center=true);
//gt label: ***
translate([-0.21375198848545557,-3.389348573982716,-4.030495434999466])
rotate([5.535275690634281, 80.51945456963035, 95.47307284299437])
cube([4.377156607806683,2.46059462428093,0.8274273760616797],center=true);

```

Airplane^{Cube} Answer: 1

```

//gt label: wing
translate([-1.2090794183313844,-2.39425728097558,-8.642287850379944])
rotate([115.2356276748709, -74.36285237906799, -23.796308287756684])
cube([4.549195356667054,2.962181642651576,0.5826913658529642],center=true);
//gt label: engine
translate([3.2827888801693916,-3.7463440373539925,4.486278258264065])
rotate([5.763582958161343, -84.35247507826415, -99.1976935652948])
cube([4.696845114231117,3.9415006339550103,1.4838621765375144],center=true);
//gt label: engine
translate([3.2858493365347385,-3.7494206801056866,-4.478634186089039])
rotate([-174.4424970819488, -84.32345993974258, 80.97624640896319])
cube([4.700984731316581,3.9289867132902314,1.4795199222862805],center=true);

```

```

//gt label: tail
translate([-18.57037141919136,3.960353471338749,0.010860398542718032])
rotate([0.0583913655830972, 0.29460563774497545, 97.54395652116982])
cube([2.8469880484044787,1.7371205240488408,0.16724910237826446],center=true);
//gt label: wing
translate([-3.8126922398805623,-1.661948999390006,-13.838217854499819])
rotate([108.9185810407197, -68.89575497242774, -19.104765967933826])
cube([6.259281337261205,1.6732768062502206,0.32410754356534577],center=true);
//gt label: body
translate([-14.985372871160505,-1.6932213027030232,0.017578401166247384])
rotate([-129.11672595006985, 1.4365185575016923, -5.91875990135237])
cube([2.767746057361449,2.6511936262250693,2.5154695473611732],center=true);
//gt label: tail
translate([-17.15000495314598,0.1767136692069471,-0.014859895018162206])
rotate([0.23945260788361308, 0.9662714921344305, 65.85160814176284])
cube([5.703376904129986,2.284846119582665,0.47554199583828477],center=true);
//gt label: wing
translate([-1.2060251086950302,-2.3856407962739468,8.632851392030716])
rotate([-116.06612268142278, 74.25147638894713, -24.488883650841263])
cube([4.538758210837845,2.9628637246787597,0.5826405528932886],center=true);
//gt label: tail
translate([-17.7386337518692,-1.6821485850960014,-3.6005014181137085])
rotate([115.54155105838161, -68.46903206821945, -25.373668594153667])
cube([5.481317713856701,1.6346948128193666,0.12983383494430006],center=true);
//gt label: wing
translate([-0.22363933501765132,-3.3783567883074284,4.0274179726839066])
rotate([-5.691028493805405, -80.30438112928186, 95.55512198454505])
cube([4.3613525480031985,2.4688906595110898,0.8301708148792393],center=true);
//gt label: body
translate([19.155228585004807,-2.840406745672226,0.014593831292586401])
rotate([45.898682719080014, 89.84470967418689, -134.61131681147813])
cube([1.651420677080801,1.6406363435090274,1.2112336419523233],center=true);
//gt label: body
translate([10.233398154377937,-2.542352061718702,0.016752978699514757])
rotate([0.07293735511468132, -0.32311898947117834, 0.14980733420051667])
cube([14.565475881099708,3.5536899790167817,3.2618002593517312],center=true);
//gt label: wing
translate([-3.83928831666708,-1.6292880475521088,13.84933277964592])
rotate([-109.57229119755522, 68.75098238431028, -19.78820746926253])
cube([6.254601627588276,1.677151499316103,0.32551002223044884],center=true);
//gt label: tail
translate([-17.88649618625641,-1.6755205672234297,3.5308007895946503])
rotate([-121.40486008933163, 72.67759078536278, -32.405874641961816])
cube([5.450109541416168,1.647915402427319,0.1307015737984354],center=true);
//gt label: body
translate([-5.481415241956711,-2.4164217710494995,0.005415466730482876])
rotate([-179.91672024987184, 0.10720704194893887, -1.7747561875698454])
cube([13.972000181674963,3.3922076225281037,3.3860469609499253],center=true);
//gt label: wing
translate([-0.21375198848545557,-3.389348573982716,-4.030495434999466])
rotate([5.535275690634281, 80.51945456963035, 95.47307284299437])
cube([4.377156607806683,2.46059462428093,0.8274273760616797],center=true);

```

Airplane^{Cube} Question: 2

The following code describes a model airplane.

The airplane is consist of four parts , namely wing , body , tail , and engine .

Please annotate the following code to classify every code block . Block is defined with the 'code' sentence .

Here are an annotation example , please comment the given code following the structure of example .

Notice 1 , all annotation should start with '//gt label:'.add()

Notice 2 , the labels given in the example program have noting to do with what you will predict for the task program . Please use the metioned parts to label .

Please think step by step

Example :

```
$vpf=10;
//gt label: body
color ([1.0 ,0.0 ,1.0])
translate ([9.250219017267227 , -2.7869662642478943 , -0.008156453259289322])
rotate ([ -179.78543394629193 , -0.2159261053351588 , -2.3822341519711294])
cube ([12.607995122671129 ,4.187371432781223 ,3.7102610990405083] ,center=true);
//gt label: wing
color ([0.0 ,0.5 ,1.0])
translate ([ -5.955269038677215 , -2.538721188902855 , -15.464503020048141])
rotate ([102.14512608409758 , -70.4738708896967 , -10.544348599040614])
cube ([6.423201896250253 ,2.4891043826937786 ,0.352352557238204] ,center=true);
//gt label: body
color ([1.0 ,0.0 ,1.0])
translate ([ -13.456687927246094 , -0.8307515271008015 , -0.053393583802971954])
rotate ([90.48750093436946 , 39.4193184735338 , 82.3074203037256])
cube ([3.2380105741322205 ,3.087527584284884 ,3.074986208230599] ,center=true);
//gt label: wing
color ([0.0 ,0.5 ,1.0])
translate ([ -3.0888161435723305 , -2.9815239645540714 ,10.20038940012455])
rotate ([ -77.24801015480405 , -73.14456579408406 , 168.52065000478333])
cube ([4.764881618320958 ,3.9973920211196146 ,0.6270741811022208] ,center=true);
//gt label: wing
color ([0.0 ,0.5 ,1.0])
translate ([ -2.3069106228649616 , -3.453640080988407 ,5.067141279578209])
rotate ([ -14.840335154128773 , -85.67072608688505 , 103.14779084500344])
cube ([4.478208012878897 ,2.742571923881772 ,0.8824746124446424] ,center=true);
//gt label: tail
color ([1.0 ,0.5 ,0.0])
translate ([ -15.14525830745697 , -2.1386545710265636 ,4.398029260337353])
rotate ([ -97.26073421269203 , 73.53773194259227 , -7.857569898943973])
cube ([6.187138408422474 ,2.1074002981185984 ,0.14533865149134137] ,center=true);
//gt label: engine
color ([0.5 ,0.75 ,0.5])
translate ([1.7339041456580162 , -3.9094237238168716 , -5.73966309428215])
rotate ([122.74698251237912 , 83.2193008318756 , -148.62097763190738])
cube ([5.822300128638749 ,4.8442387580871635 ,1.6862346231937435] ,center=true);
//gt label: body
color ([1.0 ,0.0 ,1.0])
translate ([ -4.661916941404343 , -2.4578636325895786 , -0.0037767807953061052])
rotate ([ -179.83167033907282 , 0.08575659880190455 , -7.585001348801497])
cube ([12.934949472546581 ,4.321432821452619 ,3.9644836634397516] ,center=true);
//gt label: body
color ([1.0 ,0.0 ,1.0])
translate ([17.47809112071991 , -3.1384810991585255 , -0.013883557548979323])
rotate ([ -155.09306989154229 , 89.77337564724621 , 24.290506036694723])
cube ([1.5893155615776815 ,1.4067392703146249 ,1.014795145019961] ,center=true);
```

```

//gt label: engine
color ([0.5 ,0.75 ,0.5])
translate ([1.735662519931793 , -3.925429806113243 , 5.74006550014019])
rotate ([ -124.81888217218437 , -83.2310042331682 , -146.24604039789486])
cube ([5.833983421325687 , 4.84729737043381 , 1.6854473296552923] , center=true);
//gt label: tail
color ([1.0 ,0.5 ,0.0])
translate ([ -17.251052260398865 , 4.747964590787888 , -0.01069172205461655])
rotate ([0.12331621659602246 , -0.338651121781824 , 101.80605090791137])
cube ([2.4825835227966673 , 1.8788958527148234 , 0.20174257340841006] , center=true);
//gt label: wing
color ([0.0 ,0.5 ,1.0])
translate ([ -3.0894965864717956 , -2.9681333154439926 , -10.202635824680328])
rotate ([77.24514710513878 , 73.15612006556658 , 168.63426145968305])
cube ([4.768844209611418 , 3.9913301169872293 , 0.629796823486688] , center=true);
//gt label: wing
color ([0.0 ,0.5 ,1.0])
translate ([ -2.3071946017444134 , -3.455677106976509 , -5.0834157690405855])
rotate ([16.77675236368178 , 85.65319604123253 , 105.57186497593746])
cube ([4.497303031384947 , 2.730496060103179 , 0.8894881326705244] , center=true);
//gt label: tail
color ([1.0 ,0.5 ,0.0])
translate ([ -15.937966704368591 , 1.0895324032753708 , -0.02831026184139773])
rotate ([ -0.3232861672747573 , 0.5708163948743981 , 73.3102113520645])
cube ([5.618372149765493 , 2.009373698383577 , 0.506643163971603] , center=true);
//gt label: tail
color ([1.0 ,0.5 ,0.0])
translate ([ -15.001116693019867 , -2.1231980063021183 , -4.4619785994291306])
rotate ([96.46600811574525 , -69.77824239923142 , -6.502507497427613])
cube ([6.3349770754575765 , 2.0700482651591328 , 0.14695360208862068] , center=true);
//gt label: wing
color ([0.0 ,0.5 ,1.0])
translate ([ -5.956139415502548 , -2.54578173160553 , 15.436067432165146])
rotate ([ -101.29689758859499 , 70.52081234569397 , -10.112066769377915])
cube ([6.4112526550889095 , 2.4928508140146914 , 0.3505952330306386] , center=true);

```

Task:

```

//gt label: ***
translate ([ -1.0291765443980696 , -4.379029311239719 , 9.931433126330376])
rotate ([ -89.70324549643868 , -84.1829831107987 , -2.2214055295749935])
cube ([4.76372726261617 , 4.4013271853327876 , 0.6496309861540865] , center=true);
//gt label: ***
translate ([ -14.379241466522217 , -1.432777363359928 , 3.432165253907442])
rotate ([ -89.8906439961192 , 72.06486113150841 , 0.33916275096654835])
cube ([5.22511467337609 , 1.8507272377610346 , 0.12722646933981363] , center=true);
//gt label: ***
translate ([ -17.14067667722702 , 4.005718380212784 , -0.01963946182513608])
rotate ([ -0.17231084772373145 , -0.15952507820283718 , 99.50237198315423])
cube ([3.2515583746135364 , 2.16392930597069 , 0.1584215543698521] , center=true);
//gt label: ***
translate ([2.294098995625973 , -4.355607815086842 , 4.279787912964821])
rotate ([ -162.71192063282987 , -83.86572783321868 , -108.06174017839452])
cube ([5.190586857497699 , 4.237833209335811 , 1.4364818576723428] , center=true);
//gt label: ***
translate ([17.794046103954315 , -2.932734712958336 , -0.0025601062225177884])
rotate ([ -153.01368703836872 , 89.49457059464926 , 26.33887855148037])

```

```

cube([1.3221963401883874,1.2848753482103545,0.9487679041922337],center=true);
//gt label: ***
translate([-15.441789627075197,0.6475475011393432,-0.009473927784711093])
rotate([0.468714130794327,-0.26210844401817973,66.58997092676087])
cube([5.233722962439064,2.230983357876548,0.4179071402177218],center=true);
//gt label: ***
translate([-1.5760746877640484,-4.198968671262264,-4.350411780178548])
rotate([13.201863020653578,86.5395668647182,101.40184615964846])
cube([5.524439476430418,2.7468611113727097,0.7459424436092397],center=true);
//gt label: ***
translate([10.240879952907562,-2.4842165037989616,-0.01277930488868148])
rotate([179.9366177146892,-0.11114175736444476,-0.8646565240588133])
cube([11.867466717958454,3.4932164102792758,3.2916647568345097],center=true);
//gt label: ***
translate([-3.303586132824421,-2.1400148421525955,-0.012198599069961402])
rotate([-179.8487821329813,0.04566453422849723,-1.546757039779757])
cube([13.261167854070663,3.426635861396792,3.194976914674046],center=true);
//gt label: ***
translate([-1.0262832790613174,-4.376330077648163,-9.927223846316338])
rotate([90.23711066443157,-83.74390568369569,177.74313012338342])
cube([4.7601740434765905,4.400968626141557,0.64976539462805],center=true);
//gt label: ***
translate([-4.689892344176769,-4.205830469727516,14.676300585269928])
rotate([-92.41374370312249,71.56159133791489,0.1150922306163651])
cube([6.07949033379555,2.4659978039562747,0.34893881762401274],center=true);

//gt label: ***
translate([-1.5893350262194874,-4.188789688050747,4.360119923949242])
rotate([-10.839169757964955,-86.65302178340283,99.10954413665007])
cube([5.5495791882276535,2.7453395910561103,0.743680293671789],center=true);
//gt label: ***
translate([-12.712700963020325,-1.1528310086578129,-0.037956243613734876])
rotate([143.6986956534412,0.46437753244110125,-9.39914650360689])
cube([3.4124705195427207,2.45395533740528,2.405040692538092],center=true);
//gt label: ***
translate([2.3020989634096627,-4.345961958169937,-4.272172935307026])
rotate([160.73347850287567,83.72395122937961,-110.0326433398113])
cube([5.181406103074554,4.2309546098113096,1.4322108030319223],center=true);
//gt label: ***
translate([-14.217626750469208,-1.4404156617820263,-3.50570697337389])
rotate([91.76885955381205,-67.69119752320073,-0.4460848230136764])
cube([5.253285951912408,1.8261546641588369,0.12881031492725242],center=true);
//gt label: ***
translate([-4.709801189601421,-4.1979532316327095,-14.662889242172241])
rotate([92.95449334560206,-71.17966014336376,-0.06589732549748115])
cube([6.095076389610771,2.484403364360339,0.34865967929363895],center=true);

```

Airplane^{Cube} Answer: 2

```

//gt label: wing
translate([-1.0291765443980696,-4.379029311239719,9.931433126330376])
rotate([-89.70324549643868,-84.1829831107987,-2.2214055295749935])
cube([4.76372726261617,4.4013271853327876,0.6496309861540865],center=true);

//gt label: tail
translate([-14.379241466522217,-1.4327777363359928,3.432165253907442])

```

```

rotate([-89.8906439961192, 72.06486113150841, 0.33916275096654835])
cube([5.22511467337609,1.8507272377610346,0.12722646933981363],center=true);

//gt label: tail
translate([-17.14067667722702,4.005718380212784,-0.01963946182513608])
rotate([-0.17231084772373145, -0.15952507820283718, 99.50237198315423])
cube([3.2515583746135364,2.16392930597069,0.1584215543698521],center=true);

//gt label: engine
translate([2.294098995625973,-4.355607815086842,4.279787912964821])
rotate([-162.71192063282987, -83.86572783321868, -108.06174017839452])
cube([5.190586857497699,4.237833209335811,1.4364818576723428],center=true);

//gt label: body
translate([17.794046103954315,-2.932734712958336,-0.0025601062225177884])
rotate([-153.01368703836872, 89.49457059464926, 26.33887855148037])
cube([1.3221963401883874,1.2848753482103545,0.9487679041922337],center=true);

//gt label: tail
translate([-15.441789627075197,0.6475475011393432,-0.009473927784711093])
rotate([0.468714130794327, -0.26210844401817973, 66.58997092676087])
cube([5.233722962439064,2.230983357876548,0.4179071402177218],center=true);

//gt label: wing
translate([-1.5760746877640484,-4.198968671262264,-4.350411780178548])
rotate([13.201863020653578, 86.5395668647182, 101.40184615964846])
cube([5.524439476430418,2.7468611113727097,0.7459424436092397],center=true);

//gt label: body
translate([10.240879952907562,-2.4842165037989616,-0.01277930488868148])
rotate([179.9366177146892, -0.11114175736444476, -0.8646565240588133])
cube([11.867466717958454,3.4932164102792758,3.2916647568345097],center=true);

//gt label: body
translate([-3.303586132824421,-2.1400148421525955,-0.012198599069961402])
rotate([-179.8487821329813, 0.04566453422849723, -1.546757039779757])
cube([13.261167854070663,3.426635861396792,3.194976914674046],center=true);

//gt label: wing
translate([-1.0262832790613174,-4.376330077648163,-9.927223846316338])
rotate([90.23711066443157, -83.74390568369569, 177.74313012338342])
cube([4.7601740434765905,4.400968626141557,0.64976539462805],center=true);

//gt label: wing
translate([-4.689892344176769,-4.205830469727516,14.676300585269928])
rotate([-92.41374370312249, 71.56159133791489, 0.1150922306163651])
cube([6.07949033379555,2.4659978039562747,0.34893881762401274],center=true);

//gt label: wing
translate([-1.5893350262194874,-4.188789688050747,4.360119923949242])
rotate([-10.839169757964955, -86.65302178340283, 99.10954413665007])
cube([5.5495791882276535,2.7453395910561103,0.743680293671789],center=true);

//gt label: body
translate([-12.712700963020325,-1.1528310086578129,-0.037956243613734876])
rotate([143.6986956534412, 0.46437753244110125, -9.39914650360689])
cube([3.4124705195427207,2.45395533740528,2.405040692538092],center=true);

```

```

//gt label: engine
translate([2.3020989634096627,-4.345961958169937,-4.272172935307026])
rotate([160.73347850287567, 83.72395122937961, -110.0326433398113])
cube([5.181406103074554,4.2309546098113096,1.4322108030319223],center=true);

//gt label: tail
translate([-14.217626750469208,-1.4404156617820263,-3.50570697337389])
rotate([91.76885955381205, -67.69119752320073, -0.4460848230136764])
cube([5.253285951912408,1.8261546641588369,0.12881031492725242],center=true);

//gt label: wing
translate([-4.709801189601421,-4.1979532316327095,-14.662889242172241])
rotate([92.95449334560206, -71.17966014336376, -0.06589732549748115])
cube([6.095076389610771,2.484403364360339,0.34865967929363895],center=true);

```

Airplane^{Cube} Question: 3

The following code describes a model airplane.

The airplane is consist of four parts, namely wing, body, tail, and engine.

Please annotate the following code to classify every code block. Block is defined with the 'code' sentence.

Here are an annotation example, please comment the given code following the structure of example.

Notice 1, all annotation should start with '//gt label:'.add()

Notice 2, the labels given in the example program have nothing to do with what you will predict for the task program. Please use the metioned parts to label.

Please think step by step

Example:

```

$vpf=10;
//gt label: body
color([1.0,0.0,1.0])
translate([9.250219017267227,-2.7869662642478943,-0.008156453259289322])
rotate([-179.78543394629193, -0.2159261053351588, -2.3822341519711294])
cube([12.607995122671129,4.187371432781223,3.7102610990405083],center=true);
//gt label: wing
color([0.0,0.5,1.0])
translate([-5.955269038677215,-2.538721188902855,-15.464503020048141])
rotate([102.14512608409758, -70.4738708896967, -10.544348599040614])
cube([6.423201896250253,2.4891043826937786,0.352352557238204],center=true);
//gt label: body
color([1.0,0.0,1.0])
translate([-13.456687927246094,-0.8307515271008015,-0.053393583802971954])
rotate([90.48750093436946, 39.4193184735338, 82.3074203037256])
cube([3.2380105741322205,3.087527584284884,3.074986208230599],center=true);
//gt label: wing
color([0.0,0.5,1.0])
translate([-3.0888161435723305,-2.9815239645540714,10.20038940012455])
rotate([-77.24801015480405, -73.14456579408406, 168.52065000478333])
cube([4.764881618320958,3.9973920211196146,0.6270741811022208],center=true);
//gt label: wing
color([0.0,0.5,1.0])
translate([-2.3069106228649616,-3.453640080988407,5.067141279578209])
rotate([-14.840335154128773, -85.67072608688505, 103.14779084500344])
cube([4.478208012878897,2.742571923881772,0.8824746124446424],center=true);

```



```

//gt label: tail
color ([1.0 ,0.5 ,0.0])
translate ([-15.14525830745697, -2.1386545710265636, 4.398029260337353])
rotate ([-97.26073421269203, 73.53773194259227, -7.857569898943973])
cube ([6.187138408422474, 2.1074002981185984, 0.14533865149134137], center=true);
//gt label: engine
color ([0.5 ,0.75 ,0.5])
translate ([1.7339041456580162, -3.9094237238168716, -5.73966309428215])
rotate ([122.74698251237912, 83.2193008318756, -148.62097763190738])
cube ([5.822300128638749, 4.8442387580871635, 1.6862346231937435], center=true);
//gt label: body
color ([1.0 ,0.0 ,1.0])
translate ([-4.661916941404343, -2.4578636325895786, -0.0037767807953061052])
rotate ([-179.83167033907282, 0.08575659880190455, -7.585001348801497])
cube ([12.934949472546581, 4.321432821452619, 3.9644836634397516], center=true);
//gt label: body
color ([1.0 ,0.0 ,1.0])
translate ([17.47809112071991, -3.1384810991585255, -0.013883557548979323])
rotate ([-155.09306989154229, 89.77337564724621, 24.290506036694723])
cube ([1.5893155615776815, 1.4067392703146249, 1.014795145019961], center=true);
//gt label: engine
color ([0.5 ,0.75 ,0.5])
translate ([1.735662519931793, -3.925429806113243, 5.74006550014019])
rotate ([-124.81888217218437, -83.2310042331682, -146.24604039789486])
cube ([5.833983421325687, 4.84729737043381, 1.6854473296552923], center=true);
//gt label: tail
color ([1.0 ,0.5 ,0.0])
translate ([-17.251052260398865, 4.747964590787888, -0.01069172205461655])
rotate ([0.12331621659602246, -0.338651121781824, 101.80605090791137])
cube ([2.4825835227966673, 1.8788958527148234, 0.20174257340841006], center=true);
//gt label: wing
color ([0.0 ,0.5 ,1.0])
translate ([-3.0894965864717956, -2.9681333154439926, -10.202635824680328])
rotate ([77.24514710513878, 73.15612006556658, 168.63426145968305])
cube ([4.768844209611418, 3.9913301169872293, 0.629796823486688], center=true);
//gt label: wing
color ([0.0 ,0.5 ,1.0])
translate ([-2.3071946017444134, -3.455677106976509, -5.0834157690405855])
rotate ([16.77675236368178, 85.65319604123253, 105.57186497593746])
cube ([4.497303031384947, 2.730496060103179, 0.8894881326705244], center=true);
//gt label: tail
color ([1.0 ,0.5 ,0.0])
translate ([-15.937966704368591, 1.0895324032753708, -0.02831026184139773])
rotate ([-0.3232861672747573, 0.5708163948743981, 73.3102113520645])
cube ([5.618372149765493, 2.009373698383577, 0.506643163971603], center=true);
//gt label: tail
color ([1.0 ,0.5 ,0.0])
translate ([-15.001116693019867, -2.1231980063021183, -4.4619785994291306])
rotate ([96.46600811574525, -69.77824239923142, -6.502507497427613])
cube ([6.3349770754575765, 2.0700482651591328, 0.14695360208862068], center=true);
//gt label: wing
color ([0.0 ,0.5 ,1.0])
translate ([-5.956139415502548, -2.54578173160553, 15.436067432165146])
rotate ([-101.29689758859499, 70.52081234569397, -10.112066769377915])
cube ([6.4112526550889095, 2.4928508140146914, 0.3505952330306386], center=true);

```

Task:

```

//gt label: ***
translate([4.485025964677334,-3.4974084794521336,4.64983657002449])
rotate([-1.5794320693704758,-82.50112081866051,-90.85857518356286])
cube([5.2757825702428836,3.977863043546678,1.3635911792516748],center=true);
//gt label: ***
translate([-16.954638957977295,0.9377738647162914,-0.0187698789522983])
rotate([0.17586049775788598,0.2639966728596206,70.2598060147382])
cube([5.249424576759342,2.284606192260994,0.38507016142830297],center=true);
//gt label: ***
translate([-17.88057565689087,-0.8994258567690849,-3.4547751769423485])
rotate([107.22073837463746,-65.46056644774335,-16.068992305603714])
cube([5.685839876532558,1.8444823659956526,0.1169114129152275],center=true);
//gt label: ***
translate([-18.86580780148506,4.120122529566288,-0.03561457677278668])
rotate([0.015577260699152738,0.23327545333733019,94.02326829810939])
cube([2.348678056150694,1.7517704330385009,0.14861202798783824],center=true);
//gt label: ***
translate([4.486228674650192,-3.5031433776021004,-4.64188925921917])
rotate([179.0626689301875,-82.27737919139358,88.5497614067408])
cube([5.281359702348712,3.9733247086405776,1.3640574086457538],center=true);
//gt label: ***
translate([-14.322124421596527,-0.8669077139347791,-0.01120624168834193])
rotate([139.1750210010532,1.0586025700072843,-8.062447364094146])
cube([3.378987442702065,2.51641757786275,2.4365506693720933],center=true);
//gt label: ***
translate([-4.4803401082754135,-2.3446794040501118,-0.010926213362836307])
rotate([179.99832540193842,0.02092757387061096,-4.407551599006336])
cube([14.15883451700211,3.96681245416403,3.30937020480633],center=true);
//gt label: ***
translate([-18.031493425369263,-0.879371538758278,3.3500738441944127])
rotate([-111.45557055257179,70.98867524928433,-21.415623979541834])
cube([5.698197670280939,1.857860721647753,0.11583969229832725],center=true);
//gt label: ***
translate([-4.05317522585392,-2.556444462388754,-13.916282951831818])
rotate([104.83362697532066,-63.78530813281644,-9.99065022559133])
cube([6.71284642070532,2.1321101486682927,0.3067173971794662],center=true);
//gt label: ***
translate([0.49646740779280674,-3.4003819525241856,-4.430934749543667])
rotate([169.43364803307446,-82.54568553642547,-80.71195981728893])
cube([4.822181425988676,2.514653671532871,0.7399983005598232],center=true);
//gt label: ***
translate([-0.3278399910777808,-3.1725186109542847,9.961305409669876])
rotate([33.92674482592437,82.53643281067012,124.41954626868937])
cube([4.929474629461776,3.7014614418149105,0.614628540351993],center=true);
//gt label: ***
translate([10.91297559440136,-2.18883503228426,-0.016058923356467743])
rotate([0.06424524681481897,-0.36448483783202995,1.5600131310411343])
cube([13.592597842216492,4.056088775396351,3.3325081318616876],center=true);
//gt label: ***
translate([-0.3295525722205638,-3.1723587960004807,-9.958050921559334])
rotate([-33.57586497967647,-82.35632091017473,124.19392975594913])
cube([4.933460578322414,3.70298828929663,0.6161986198276308],center=true);
//gt label: ***
translate([19.35147315263748,-2.3588359355926514,-0.017098860262194666])
rotate([103.22551892903451,-89.68850952659633,-103.02606851346802])
cube([1.4854588918388032,1.4666296169162056,0.9966680314392127],center=true);
//gt label: ***

```

```

translate([-4.047834537923336, -2.5251344591379166, 13.977147042751312])
rotate([-104.84296394673429, 63.76993566668482, -10.467470552035177])
cube([6.699303947389131, 2.119463663548242, 0.30590198235588006], center=true);

//gt label: ***
translate([0.4944535344839095, -3.3902707882225513, 4.4299811869859695])
rotate([-169.70305450083723, 82.40043095194424, -81.27587109581378])
cube([4.816342443227768, 2.51477885991335, 0.7377750286832456], center=true);

```

Airplane^{Cube} Answer: 3

```

//gt label: body
translate([4.485025964677334, -3.4974084794521336, 4.64983657002449])
rotate([-1.5794320693704758, -82.50112081866051, -90.85857518356286])
cube([5.2757825702428836, 3.977863043546678, 1.3635911792516748], center=true);
//gt label: tail
translate([-16.954638957977295, 0.9377738647162914, -0.0187698789522983])
rotate([0.17586049775788598, 0.2639966728596206, 70.2598060147382])
cube([5.249424576759342, 2.284606192260994, 0.38507016142830297], center=true);
//gt label: tail
translate([-17.88057565689087, -0.8994258567690849, -3.4547751769423485])
rotate([107.22073837463746, -65.46056644774335, -16.068992305603714])
cube([5.685839876532558, 1.8444823659956526, 0.1169114129152275], center=true);
//gt label: tail
translate([-18.86580780148506, 4.120122529566288, -0.03561457677278668])
rotate([0.015577260699152738, 0.23327545333733019, 94.02326829810939])
cube([2.348678056150694, 1.7517704330385009, 0.14861202798783824], center=true);
//gt label: body
translate([4.486228674650192, -3.5031433776021004, -4.64188925921917])
rotate([179.0626689301875, -82.27737919139358, 88.5497614067408])
cube([5.281359702348712, 3.9733247086405776, 1.3640574086457538], center=true);
//gt label: body
translate([-14.322124421596527, -0.8669077139347791, -0.01120624168834193])
rotate([139.1750210010532, 1.0586025700072843, -8.062447364094146])
cube([3.378987442702065, 2.51641757786275, 2.4365506693720933], center=true);
//gt label: body
translate([-4.4803401082754135, -2.3446794040501118, -0.010926213362836307])
rotate([179.99832540193842, 0.02092757387061096, -4.407551599006336])
cube([14.15883451700211, 3.96681245416403, 3.30937020480633], center=true);
//gt label: tail
translate([-18.031493425369263, -0.879371538758278, 3.3500738441944127])
rotate([-111.45557055257179, 70.98867524928433, -21.415623979541834])
cube([5.698197670280939, 1.857860721647753, 0.11583969229832725], center=true);
//gt label: wing
translate([-4.05317522585392, -2.556444462388754, -13.916282951831818])
rotate([104.83362697532066, -63.78530813281644, -9.99065022559133])
cube([6.71284642070532, 2.1321101486682927, 0.3067173971794662], center=true);
//gt label: wing
translate([0.49646740779280674, -3.4003819525241856, -4.430934749543667])
rotate([169.43364803307446, -82.54568553642547, -80.71195981728893])
cube([4.822181425988676, 2.514653671532871, 0.7399983005598232], center=true);
//gt label: wing
translate([-0.3278399910777808, -3.1725186109542847, 9.961305409669876])
rotate([33.92674482592437, 82.53643281067012, 124.41954626868937])
cube([4.929474629461776, 3.7014614418149105, 0.614628540351993], center=true);
//gt label: body

```

```

translate([10.91297559440136,-2.18883503228426,-0.016058923356467743])
rotate([0.06424524681481897,-0.36448483783202995,1.5600131310411343])
cube([13.592597842216492,4.056088775396351,3.3325081318616876],center=true);
//gt label: wing
translate([-0.3295525722205638,-3.1723587960004807,-9.958050921559334])
rotate([-33.57586497967647,-82.35632091017473,124.19392975594913])
cube([4.933460578322414,3.70298828929663,0.6161986198276308],center=true);
//gt label: engine
translate([19.35147315263748,-2.3588359355926514,-0.017098860262194666])
rotate([103.22551892903451,-89.68850952659633,-103.02606851346802])
cube([1.4854588918388032,1.4666296169162056,0.9966680314392127],center=true);
//gt label: wing
translate([-4.047834537923336,-2.5251344591379166,13.977147042751312])
rotate([-104.84296394673429,63.76993566668482,-10.467470552035177])
cube([6.699303947389131,2.119463663548242,0.30590198235588006],center=true);
//gt label: wing
translate([0.4944535344839095,-3.3902707882225513,4.4299811869859695])
rotate([-169.70305450083723,82.40043095194424,-81.27587109581378])
cube([4.816342443227768,2.51477885991335,0.7377750286832456],center=true);

```

Airplane^{Cube} Question: 4

The following code describes a model airplane.

The airplane is consist of four parts, namely wing, body, tail, and engine.

Please annotate the following code to classify every code block. Block is defined with the 'code' sentence.

Here are an annotation example, please comment the given code following the structure of example.

Notice 1, all annotation should start with '//gt label:'.add()

Notice 2, the labels given in the example program have nothing to do with what you will predict for the task program. Please use the metioned parts to label.

Please think step by step

Example:

```

$vpf=10;
//gt label: body
color([1.0,0.0,1.0])
translate([9.250219017267227,-2.7869662642478943,-0.008156453259289322])
rotate([-179.78543394629193,-0.2159261053351588,-2.3822341519711294])
cube([12.607995122671129,4.187371432781223,3.7102610990405083],center=true);
//gt label: wing
color([0.0,0.5,1.0])
translate([-5.955269038677215,-2.538721188902855,-15.464503020048141])
rotate([102.14512608409758,-70.4738708896967,-10.544348599040614])
cube([6.423201896250253,2.4891043826937786,0.352352557238204],center=true);
//gt label: body
color([1.0,0.0,1.0])
translate([-13.456687927246094,-0.8307515271008015,-0.053393583802971954])
rotate([90.48750093436946,39.4193184735338,82.3074203037256])
cube([3.2380105741322205,3.087527584284884,3.074986208230599],center=true);
//gt label: wing
color([0.0,0.5,1.0])
translate([-3.0888161435723305,-2.9815239645540714,10.20038940012455])
rotate([-77.24801015480405,-73.14456579408406,168.52065000478333])
cube([4.764881618320958,3.9973920211196146,0.6270741811022208],center=true);

```

```

//gt label: wing
color ([0.0 ,0.5 ,1.0])
translate ([-2.3069106228649616 , -3.453640080988407 ,5.067141279578209])
rotate ([-14.840335154128773 , -85.67072608688505 , 103.14779084500344])
cube ([4.478208012878897 ,2.742571923881772 ,0.8824746124446424] ,center=true);
//gt label: tail
color ([1.0 ,0.5 ,0.0])
translate ([-15.14525830745697 , -2.1386545710265636 ,4.398029260337353])
rotate ([-97.26073421269203 , 73.53773194259227 , -7.857569898943973])
cube ([6.187138408422474 ,2.1074002981185984 ,0.14533865149134137] ,center=true);
//gt label: engine
color ([0.5 ,0.75 ,0.5])
translate ([1.7339041456580162 , -3.9094237238168716 , -5.73966309428215])
rotate ([122.74698251237912 , 83.2193008318756 , -148.62097763190738])
cube ([5.822300128638749 ,4.8442387580871635 ,1.6862346231937435] ,center=true);
//gt label: body
color ([1.0 ,0.0 ,1.0])
translate ([-4.661916941404343 , -2.4578636325895786 , -0.0037767807953061052])
rotate ([-179.83167033907282 , 0.08575659880190455 , -7.585001348801497])
cube ([12.934949472546581 ,4.321432821452619 ,3.9644836634397516] ,center=true);
//gt label: body
color ([1.0 ,0.0 ,1.0])
translate ([17.47809112071991 , -3.1384810991585255 , -0.013883557548979323])
rotate ([-155.09306989154229 , 89.77337564724621 , 24.290506036694723])
cube ([1.5893155615776815 ,1.4067392703146249 ,1.014795145019961] ,center=true);
//gt label: engine
color ([0.5 ,0.75 ,0.5])
translate ([1.735662519931793 , -3.925429806113243 ,5.74006550014019])
rotate ([-124.81888217218437 , -83.2310042331682 , -146.24604039789486])
cube ([5.833983421325687 ,4.84729737043381 ,1.6854473296552923] ,center=true);
//gt label: tail
color ([1.0 ,0.5 ,0.0])
translate ([-17.251052260398865 ,4.747964590787888 , -0.01069172205461655])
rotate ([0.12331621659602246 , -0.338651121781824 , 101.80605090791137])
cube ([2.4825835227966673 ,1.8788958527148234 ,0.20174257340841006] ,center=true);
//gt label: wing
color ([0.0 ,0.5 ,1.0])
translate ([-3.0894965864717956 , -2.9681333154439926 , -10.202635824680328])
rotate ([77.24514710513878 , 73.15612006556658 , 168.63426145968305])
cube ([4.768844209611418 ,3.9913301169872293 ,0.629796823486688] ,center=true);
//gt label: wing
color ([0.0 ,0.5 ,1.0])
translate ([-2.3071946017444134 , -3.455677106976509 , -5.0834157690405855])
rotate ([16.77675236368178 , 85.65319604123253 , 105.57186497593746])
cube ([4.497303031384947 ,2.730496060103179 ,0.8894881326705244] ,center=true);
//gt label: tail
color ([1.0 ,0.5 ,0.0])
translate ([-15.937966704368591 ,1.0895324032753708 , -0.02831026184139773])
rotate ([-0.3232861672747573 , 0.5708163948743981 , 73.3102113520645])
cube ([5.618372149765493 ,2.009373698383577 ,0.506643163971603] ,center=true);
//gt label: tail
color ([1.0 ,0.5 ,0.0])
translate ([-15.001116693019867 , -2.1231980063021183 , -4.4619785994291306])
rotate ([96.46600811574525 , -69.77824239923142 , -6.502507497427613])
cube ([6.3349770754575765 ,2.0700482651591328 ,0.14695360208862068] ,center=true);
//gt label: wing
color ([0.0 ,0.5 ,1.0])
translate ([-5.956139415502548 , -2.54578173160553 ,15.436067432165146])

```

```
rotate([-101.29689758859499, 70.52081234569397, -10.112066769377915])
cube([6.4112526550889095,2.4928508140146914,0.3505952330306386],center=true);
```

Task:

```
//gt label: ***
translate([-5.636060796678066, -0.11684840894304216, 19.767055958509445])
rotate([-83.49157131139361, 79.07282323743146, 3.0570158717859184])
cube([8.758708536624912,3.8033426553010985,0.7928261067718279],center=true);

//gt label: ***
translate([-6.632417291402817,0.042038779356516884,0.12106833048164842])
rotate([-2.7018029000444166, -89.3967839932089, -91.08199256885845])
cube([3.0631588771939287,1.395140290260329,1.2514802720397846],center=true);
//gt label: ***
translate([7.582060694694519,-0.8136134734377265,0.010673422730178574])
rotate([117.5908223508261, -89.88028052667747, 151.2633523186206])
cube([2.9756208509206776,2.2291155718266973,1.6206164471805113],center=true);
//gt label: ***
translate([-4.937656745314598,-0.5644229799509047,-7.185888439416885])
rotate([-92.91445405869247, 2.455161973253575, -2.4629148932128375])
cube([4.833789318799984,3.843483254313482,1.1417334992438573],center=true);
//gt label: ***
translate([-5.55074255913496,-0.11100573814474046,-19.73050832748413])
rotate([83.78349109368294, -79.29331185591928, 2.630074341079378])
cube([8.78828905522824,3.86009335517884,0.8084750128909952],center=true);
//gt label: ***
translate([1.9122754596173763,-0.4782107518985869,-6.530029997229575])
rotate([-95.75699191593023, 3.2416210445054503, 0.1610515868166719])
cube([5.7569894939661115,4.427450783550748,2.0465208403766164],center=true);
//gt label: ***
translate([-4.929370135068893,-0.5756483925506473,7.199982479214668])
rotate([-87.08286068428667, -2.7126465891434703, -2.3110198425153032])
cube([4.817005470395101,3.8513572141528303,1.1392100621014838],center=true);
//gt label: ***
translate([9.820144549012184,-1.0545084439218044,0.05640826944727452])
rotate([114.05685845481116, 89.85865331195842, -156.58582582443725])
cube([0.8348011970520022,0.3526416327804888,0.3014790266752922],center=true);
//gt label: ***
translate([-2.346137408167124,0.2446413505822419,0.03922483883798123])
rotate([91.7418282457279, 1.435789465910794, 177.94691896766312])
cube([5.6527036800980675,5.3877161443233605,2.396653685718777],center=true);
//gt label: ***
translate([1.8948503024876118,-0.4846544191241265,6.544039212167263])
rotate([96.02241750533642, -3.1346558991233366, 0.12475104841918119])
cube([5.755106955766679,4.3895303830504435,2.031264044344426],center=true);
//gt label: ***
translate([-2.7720776572823524,-0.18513750517740848,12.895326837897302])
rotate([54.223714049713195, -82.86780415923307, -145.31477929124017])
cube([5.710964836180443,5.557915382087465,0.9538877196609985],center=true);
//gt label: ***
translate([-5.989491157233715,0.15583618893288073,4.4798192754387856])
rotate([86.43053739620203, -7.2321807615674985, -1.2067466120143868])
cube([1.7808299139142107,1.363333221524963,0.9327511675655858],center=true);
//gt label: ***
translate([-2.74593910202384,-0.16718886443413794,-12.884780690073967])
rotate([-123.40912611547402, -83.20658375898917, 32.257242035233844])
```

```

cube([5.676467753946797,5.533650554716602,0.9517370816320206],center=true);
//gt label: ***
translate([3.5717224329710007,-0.7832196913659571,0.048454075586050804])
rotate([64.21646037555853, -89.92472175650519, -156.14423337454508])
cube([7.313624843955042,4.448320977389814,2.53123488277197],center=true);
//gt label: ***
translate([-6.006421707570553,0.19017482642084363,-4.3698641285300255])
rotate([-86.15866192972756, 7.901237713326876, -0.04428547162047872])
cube([1.8119565397500996,1.400645608082416,0.9536156244576006],center=true);
//gt label: ***
translate([-7.908781468868256,0.5355192162096499,0.12190410634502771])
rotate([-169.43527643470225, 89.51704969640711, 106.068263012849])
cube([2.740756589919329,1.0123296920210139,0.3820433071814509],center=true);

```

Airplane^{Cube} Answer: 4

```

//gt label: wing
translate([-5.636060796678066,-0.11684840894304216,19.767055958509445])
rotate([-83.49157131139361, 79.07282323743146, 3.0570158717859184])
cube([8.758708536624912,3.8033426553010985,0.7928261067718279],center=true);

//gt label: engine
translate([-6.632417291402817,0.042038779356516884,0.12106833048164842])
rotate([-2.7018029000444166, -89.3967839932089, -91.08199256885845])
cube([3.0631588771939287,1.395140290260329,1.2514802720397846],center=true);

//gt label: engine
translate([7.582060694694519,-0.8136134734377265,0.010673422730178574])
rotate([117.5908223508261, -89.88028052667747, 151.2633523186206])
cube([2.9756208509206776,2.2291155718266973,1.6206164471805113],center=true);

//gt label: tail
translate([-4.937656745314598,-0.5644229799509047,-7.185888439416885])
rotate([-92.91445405869247, 2.455161973253575, -2.4629148932128375])
cube([4.833789318799984,3.843483254313482,1.1417334992438573],center=true);

//gt label: wing
translate([-5.55074255913496,-0.11100573814474046,-19.73050832748413])
rotate([83.78349109368294, -79.29331185591928, 2.630074341079378])
cube([8.78828905522824,3.86009335517884,0.8084750128909952],center=true);

//gt label: body
translate([1.9122754596173763,-0.4782107518985869,-6.530029997229575])
rotate([-95.75699191593023, 3.2416210445054503, 0.1610515868166719])
cube([5.7569894939661115,4.427450783550748,2.0465208403766164],center=true);

//gt label: tail
translate([-4.929370135068893,-0.5756483925506473,7.199982479214668])
rotate([-87.08286068428667, -2.7126465891434703, -2.3110198425153032])
cube([4.817005470395101,3.8513572141528303,1.1392100621014838],center=true);

//gt label: engine
translate([9.820144549012184,-1.0545084439218044,0.05640826944727452])
rotate([114.05685845481116, 89.85865331195842, -156.58582582443725])
cube([0.8348011970520022,0.3526416327804888,0.3014790266752922],center=true);

```

```

//gt label: body
translate([-2.346137408167124,0.2446413505822419,0.03922483883798123])
rotate([91.7418282457279, 1.435789465910794, 177.94691896766312])
cube([5.6527036800980675,5.3877161443233605,2.396653685718777],center=true);

//gt label: body
translate([1.8948503024876118,-0.4846544191241265,6.544039212167263])
rotate([96.02241750533642, -3.1346558991233366, 0.12475104841918119])
cube([5.755106955766679,4.3895303830504435,2.031264044344426],center=true);

//gt label: wing
translate([-2.7720776572823524,-0.18513750517740848,12.895326837897302])
rotate([54.223714049713195, -82.86780415923307, -145.31477929124017])
cube([5.710964836180443,5.557915382087465,0.9538877196609985],center=true);

//gt label: tail
translate([-5.989491157233715,0.15583618893288073,4.4798192754387856])
rotate([86.43053739620203, -7.2321807615674985, -1.2067466120143868])
cube([1.7808299139142107,1.363333221524963,0.9327511675655858],center=true);

//gt label: wing
translate([-2.74593910202384,-0.16718886443413794,-12.884780690073967])
rotate([-123.40912611547402, -83.20658375898917, 32.257242035233844])
cube([5.676467753946797,5.533650554716602,0.9517370816320206],center=true);

//gt label: body
translate([3.5717224329710007,-0.7832196913659571,0.048454075586050804])
rotate([64.21646037555853, -89.92472175650519, -156.14423337454508])
cube([7.313624843955042,4.448320977389814,2.53123488277197],center=true);

//gt label: tail
translate([-6.006421707570553,0.19017482642084363,-4.3698641285300255])
rotate([-86.15866192972756, 7.901237713326876, -0.04428547162047872])
cube([1.8119565397500996,1.400645608082416,0.9536156244576006],center=true);

//gt label: engine
translate([-7.908781468868256,0.5355192162096499,0.12190410634502771])
rotate([-169.43527643470225, 89.51704969640711, 106.068263012849])
cube([2.740756589919329,1.0123296920210139,0.3820433071814509],center=true);

```

Airplane^{Cube} Question: 5

The following code describes a model airplane.

The airplane is consist of four parts, namely wing, body, tail, and engine.

Please annotate the following code to classify every code block. Block is defined with the 'code' sentence.

Here are an annotation example, please comment the given code following the structure of example.

Notice 1, all annotation should start with '//gt label:'.add()

Notice 2, the labels given in the example program have noting to do with what you will predict for the task program. Please use the metioned parts to label.

Please think step by step

Example:

```
$vpf=10;
```



```

//gt label: body
color ([1.0 ,0.0 ,1.0])
translate ([9.250219017267227, -2.7869662642478943, -0.008156453259289322])
rotate ([-179.78543394629193, -0.2159261053351588, -2.3822341519711294])
cube ([12.607995122671129, 4.187371432781223, 3.7102610990405083], center=true);
//gt label: wing
color ([0.0 ,0.5 ,1.0])
translate ([-5.955269038677215, -2.538721188902855, -15.464503020048141])
rotate ([102.14512608409758, -70.4738708896967, -10.544348599040614])
cube ([6.423201896250253, 2.4891043826937786, 0.352352557238204], center=true);
//gt label: body
color ([1.0 ,0.0 ,1.0])
translate ([-13.456687927246094, -0.8307515271008015, -0.053393583802971954])
rotate ([90.48750093436946, 39.4193184735338, 82.3074203037256])
cube ([3.2380105741322205, 3.087527584284884, 3.074986208230599], center=true);
//gt label: wing
color ([0.0 ,0.5 ,1.0])
translate ([-3.0888161435723305, -2.9815239645540714, 10.20038940012455])
rotate ([-77.24801015480405, -73.14456579408406, 168.52065000478333])
cube ([4.764881618320958, 3.9973920211196146, 0.6270741811022208], center=true);
//gt label: wing
color ([0.0 ,0.5 ,1.0])
translate ([-2.3069106228649616, -3.453640080988407, 5.067141279578209])
rotate ([-14.840335154128773, -85.67072608688505, 103.14779084500344])
cube ([4.478208012878897, 2.742571923881772, 0.8824746124446424], center=true);
//gt label: tail
color ([1.0 ,0.5 ,0.0])
translate ([-15.14525830745697, -2.1386545710265636, 4.398029260337353])
rotate ([-97.26073421269203, 73.53773194259227, -7.857569898943973])
cube ([6.187138408422474, 2.1074002981185984, 0.14533865149134137], center=true);
//gt label: engine
color ([0.5 ,0.75 ,0.5])
translate ([1.7339041456580162, -3.9094237238168716, -5.73966309428215])
rotate ([122.74698251237912, 83.2193008318756, -148.62097763190738])
cube ([5.822300128638749, 4.8442387580871635, 1.6862346231937435], center=true);
//gt label: body
color ([1.0 ,0.0 ,1.0])
translate ([-4.661916941404343, -2.4578636325895786, -0.0037767807953061052])
rotate ([-179.83167033907282, 0.08575659880190455, -7.585001348801497])
cube ([12.934949472546581, 4.321432821452619, 3.9644836634397516], center=true);
//gt label: body
color ([1.0 ,0.0 ,1.0])
translate ([17.47809112071991, -3.1384810991585255, -0.013883557548979323])
rotate ([-155.09306989154229, 89.77337564724621, 24.290506036694723])
cube ([1.5893155615776815, 1.4067392703146249, 1.014795145019961], center=true);
//gt label: engine
color ([0.5 ,0.75 ,0.5])
translate ([1.735662519931793, -3.925429806113243, 5.74006550014019])
rotate ([-124.81888217218437, -83.2310042331682, -146.24604039789486])
cube ([5.833983421325687, 4.84729737043381, 1.6854473296552923], center=true);
//gt label: tail
color ([1.0 ,0.5 ,0.0])
translate ([-17.251052260398865, 4.747964590787888, -0.01069172205461655])
rotate ([0.12331621659602246, -0.338651121781824, 101.80605090791137])
cube ([2.4825835227966673, 1.8788958527148234, 0.20174257340841006], center=true);
//gt label: wing
color ([0.0 ,0.5 ,1.0])
translate ([-3.0894965864717956, -2.9681333154439926, -10.202635824680328])

```

```

rotate([77.24514710513878, 73.15612006556658, 168.63426145968305])
cube([4.768844209611418,3.9913301169872293,0.629796823486688],center=true);
//gt label: wing
color([0.0,0.5,1.0])
translate([-2.3071946017444134,-3.455677106976509,-5.0834157690405855])
rotate([16.77675236368178, 85.65319604123253, 105.57186497593746])
cube([4.497303031384947,2.730496060103179,0.8894881326705244],center=true);
//gt label: tail
color([1.0,0.5,0.0])
translate([-15.937966704368591,1.0895324032753708,-0.02831026184139773])
rotate([-0.3232861672747573, 0.5708163948743981, 73.3102113520645])
cube([5.618372149765493,2.009373698383577,0.506643163971603],center=true);
//gt label: tail
color([1.0,0.5,0.0])
translate([-15.001116693019867,-2.1231980063021183,-4.4619785994291306])
rotate([96.46600811574525, -69.77824239923142, -6.502507497427613])
cube([6.3349770754575765,2.0700482651591328,0.14695360208862068],center=true);
//gt label: wing
color([0.0,0.5,1.0])
translate([-5.956139415502548,-2.54578173160553,15.436067432165146])
rotate([-101.29689758859499, 70.52081234569397, -10.112066769377915])
cube([6.4112526550889095,2.4928508140146914,0.3505952330306386],center=true);

```

Task:

```

//gt label: ***
translate([4.098080359399319,-3.8107724115252495,10.418190136551857])
rotate([-58.7244183672916, -85.70800509331495, -32.428692893220024])
cube([4.487958364188948,4.443379007280153,0.5954402964562203],center=true);
//gt label: ***
translate([-3.4958427026867867,-2.4658922851085667,-0.011555958553799345])
rotate([-179.87435738316125, 0.17214619344374193, -0.1073028669735464])
cube([14.646199643611912,3.5272586345672634,3.0887274257838744],center=true);
//gt label: ***
translate([2.6666569523513317,-3.648683577775955,-15.2097088098526])
rotate([99.60243246282673, -81.53295681944715, -8.493162511796692])
cube([5.2578878030181,2.996884845197213,0.3275234345346707],center=true);
//gt label: ***
translate([6.481567546725273,-3.873779661953449,-4.647144712507725])
rotate([173.34208878648465, 84.45186140354788, -96.95115390985654])
cube([5.627899579703813,3.557060845196259,1.14821819588543],center=true);
//gt label: ***
translate([2.9740624502301216,-3.8214775547385216,4.676979295909405])
rotate([48.991454332548564, 89.84962237121421, -40.38957160626654])
cube([5.944863446056845,2.4114754982292657,0.5809047678485555],center=true);
//gt label: ***
translate([2.6687964238226414,-3.6889594048261642,15.20717144012451])
rotate([-99.75075158696876, 81.69817719279854, -8.666054939714511])
cube([5.23786913603545,2.981903627514853,0.328212995082151],center=true);

//gt label: ***
translate([-17.439861744642258,4.058343805372715,0.06194746471010148])
rotate([0.3603979699975381, -0.41050285760381033, 103.64422874165668])
cube([2.781330123543786,2.191038429737147,0.14844513149000793],center=true);
//gt label: ***
translate([2.975103911012411,-3.8078416511416435,-4.661385454237461])
rotate([47.30279482263276, 89.86604992485822, 137.7311591465931])

```

```

cube([5.90829409658909,2.4130767211318025,0.5818469077348721],center=true);
//gt label: ***
translate([18.170802891254425,-2.210857532918453,-0.04945462540490554])
rotate([-51.71227500620777, 89.96138128009756, 127.8807185530091])
cube([1.313095698133111,1.2585127446800708,0.8108676783740897],center=true);
//gt label: ***
translate([-16.854973435401917,-1.8270086497068405,3.154975026845932])
rotate([-100.76540340709951, 79.28596712731512, -11.788116532293104])
cube([4.287483207881452,1.8517297692596948,0.11259619146585866],center=true);
//gt label: ***
translate([-13.871272504329681,-1.8559787981212141,0.029614210361614837])
rotate([139.56730956917485, 0.6282807067036446, -8.081027930114278])
cube([4.343831501901157,2.434399109333779,2.3602771386504413],center=true);
//gt label: ***
translate([4.088809043169022,-3.7932689860463142,-10.431443303823471])
rotate([118.52024709354355, -85.50993289630408, 150.1964690427789])
cube([4.502600282430759,4.446491710841766,0.5941733019426494],center=true);
//gt label: ***
translate([6.480830758810043,-3.8918178528547287,4.650183245539665])
rotate([-173.87965615422672, -84.45812372469528, -96.51373201756485])
cube([5.633834451436998,3.5788333788514164,1.15461120381952],center=true);
//gt label: ***
translate([-17.030799388885498,0.1135369227267802,0.039311418076977134])
rotate([1.504735854888443, -0.8910460515539764, 64.2993925632759])
cube([4.876379184424877,2.20578094944358,0.35494230221957024],center=true);
//gt label: ***
translate([-16.74896940588951,-1.8076939880847933,-3.172638062387705])
rotate([100.91012515470068, -75.7748431983143, -11.286440711293574])
cube([4.2876352369785575,1.8424689024687435,0.11376293026844068],center=true);
//gt label: ***
translate([10.669450387358665,-2.730014566332102,-0.029037086933385737])
rotate([0.16200673988774242, -0.203938913393779, 0.09303678984283609])
cube([13.310545757412914,3.838756829500202,3.3505299314856574],center=true);

```

Airplane^{Cube} Answer: 5

```

//gt label: wing
translate([4.098080359399319,-3.8107724115252495,10.418190136551857])
rotate([-58.7244183672916, -85.70800509331495, -32.428692893220024])
cube([4.487958364188948,4.443379007280153,0.5954402964562203],center=true);

//gt label: body
translate([-3.4958427026867867,-2.4658922851085667,-0.011555958553799345])
rotate([-179.87435738316125, 0.17214619344374193, -0.1073028669735464])
cube([14.646199643611912,3.5272586345672634,3.0887274257838744],center=true);

//gt label: wing
translate([2.6666569523513317,-3.648683577775955,-15.2097088098526])
rotate([99.60243246282673, -81.53295681944715, -8.493162511796692])
cube([5.2578878030181,2.996884845197213,0.3275234345346707],center=true);

//gt label: engine
translate([6.481567546725273,-3.873779661953449,-4.647144712507725])
rotate([173.34208878648465, 84.45186140354788, -96.95115390985654])
cube([5.627899579703813,3.557060845196259,1.14821819588543],center=true);

```

```

//gt label: wing
translate ([2.9740624502301216, -3.8214775547385216, 4.676979295909405])
rotate ([48.991454332548564, 89.84962237121421, -40.38957160626654])
cube ([5.944863446056845, 2.4114754982292657, 0.5809047678485555], center=true);

//gt label: wing
translate ([2.6687964238226414, -3.6889594048261642, 15.20717144012451])
rotate ([-99.75075158696876, 81.69817719279854, -8.666054939714511])
cube ([5.23786913603545, 2.981903627514853, 0.328212995082151], center=true);

//gt label: tail
translate ([-17.439861744642258, 4.058343805372715, 0.06194746471010148])
rotate ([0.3603979699975381, -0.41050285760381033, 103.64422874165668])
cube ([2.781330123543786, 2.191038429737147, 0.14844513149000793], center=true);

//gt label: wing
translate ([2.975103911012411, -3.8078416511416435, -4.661385454237461])
rotate ([47.30279482263276, 89.86604992485822, 137.7311591465931])
cube ([5.90829409658909, 2.4130767211318025, 0.5818469077348721], center=true);

//gt label: body
translate ([18.170802891254425, -2.210857532918453, -0.04945462540490554])
rotate ([-51.71227500620777, 89.96138128009756, 127.8807185530091])
cube ([1.313095698133111, 1.2585127446800708, 0.8108676783740897], center=true);

//gt label: tail
translate ([-16.854973435401917, -1.8270086497068405, 3.154975026845932])
rotate ([-100.76540340709951, 79.28596712731512, -11.788116532293104])
cube ([4.287483207881452, 1.8517297692596948, 0.11259619146585866], center=true);

//gt label: body
translate ([-13.871272504329681, -1.8559787981212141, 0.029614210361614837])
rotate ([139.56730956917485, 0.6282807067036446, -8.081027930114278])
cube ([4.343831501901157, 2.434399109333779, 2.3602771386504413], center=true);

//gt label: wing
translate ([4.088809043169022, -3.7932689860463142, -10.431443303823471])
rotate ([118.52024709354355, -85.50993289630408, 150.1964690427789])
cube ([4.502600282430759, 4.446491710841766, 0.5941733019426494], center=true);

//gt label: engine
translate ([6.480830758810043, -3.8918178528547287, 4.650183245539665])
rotate ([-173.87965615422672, -84.45812372469528, -96.51373201756485])
cube ([5.633834451436998, 3.5788333788514164, 1.15461120381952], center=true);

//gt label: tail
translate ([-17.030799388885498, 0.1135369227267802, 0.039311418076977134])
rotate ([1.504735854888443, -0.8910460515539764, 64.2993925632759])
cube ([4.876379184424877, 2.20578094944358, 0.35494230221957024], center=true);

//gt label: tail
translate ([-16.74896940588951, -1.8076939880847933, -3.172638062387705])
rotate ([100.91012515470068, -75.7748431983143, -11.286440711293574])
cube ([4.2876352369785575, 1.8424689024687435, 0.11376293026844068], center=true);

//gt label: body
translate ([10.669450387358665, -2.730014566332102, -0.029037086933385737])
rotate ([0.16200673988774242, -0.203938913393779, 0.09303678984283609])

```

```
cube([13.310545757412914,3.838756829500202,3.3505299314856574],center=true);
```

Airplane^{Cube} Question: 6

The following code describes a model airplane.

The airplane is consist of four parts, namely wing, body, tail, and engine.

Please annotate the following code to classify every code block. Block is defined with the 'code' sentence.

Here are an annotation example, please comment the given code following the structure of example.

Notice 1, all annotation should start with '//gt label:'.add()

Notice 2, the labels given in the example program have noting to do with what you will predict for the task program. Please use the metioned parts to label.

Please think step by step

Example:

```
$vpf=10;
//gt label: body
color ([1.0,0.0,1.0])
translate ([9.250219017267227,-2.7869662642478943,-0.008156453259289322])
rotate ([-179.78543394629193, -0.2159261053351588, -2.3822341519711294])
cube([12.607995122671129,4.187371432781223,3.7102610990405083],center=true);
//gt label: wing
color ([0.0,0.5,1.0])
translate ([-5.955269038677215,-2.538721188902855,-15.464503020048141])
rotate ([102.14512608409758, -70.4738708896967, -10.544348599040614])
cube([6.423201896250253,2.4891043826937786,0.352352557238204],center=true);
//gt label: body
color ([1.0,0.0,1.0])
translate ([-13.456687927246094,-0.8307515271008015,-0.053393583802971954])
rotate ([90.48750093436946, 39.4193184735338, 82.3074203037256])
cube([3.2380105741322205,3.087527584284884,3.074986208230599],center=true);
//gt label: wing
color ([0.0,0.5,1.0])
translate ([-3.0888161435723305,-2.9815239645540714,10.20038940012455])
rotate ([-77.24801015480405, -73.14456579408406, 168.52065000478333])
cube([4.764881618320958,3.9973920211196146,0.6270741811022208],center=true);
//gt label: wing
color ([0.0,0.5,1.0])
translate ([-2.3069106228649616,-3.453640080988407,5.067141279578209])
rotate ([-14.840335154128773, -85.67072608688505, 103.14779084500344])
cube([4.478208012878897,2.742571923881772,0.8824746124446424],center=true);
//gt label: tail
color ([1.0,0.5,0.0])
translate ([-15.14525830745697,-2.1386545710265636,4.398029260337353])
rotate ([-97.26073421269203, 73.53773194259227, -7.857569898943973])
cube([6.187138408422474,2.1074002981185984,0.14533865149134137],center=true);
//gt label: engine
color ([0.5,0.75,0.5])
translate ([1.7339041456580162,-3.9094237238168716,-5.73966309428215])
rotate ([122.74698251237912, 83.2193008318756, -148.62097763190738])
cube([5.822300128638749,4.8442387580871635,1.6862346231937435],center=true);
//gt label: body
color ([1.0,0.0,1.0])
translate ([-4.661916941404343,-2.4578636325895786,-0.0037767807953061052])
```

```

rotate([-179.83167033907282, 0.08575659880190455, -7.585001348801497])
cube([12.934949472546581,4.321432821452619,3.9644836634397516],center=true);
//gt label: body
color([1.0,0.0,1.0])
translate([17.47809112071991,-3.1384810991585255,-0.013883557548979323])
rotate([-155.09306989154229, 89.77337564724621, 24.290506036694723])
cube([1.5893155615776815,1.4067392703146249,1.014795145019961],center=true);
//gt label: engine
color([0.5,0.75,0.5])
translate([1.735662519931793,-3.925429806113243,5.74006550014019])
rotate([-124.81888217218437, -83.2310042331682, -146.24604039789486])
cube([5.833983421325687,4.84729737043381,1.6854473296552923],center=true);
//gt label: tail
color([1.0,0.5,0.0])
translate([-17.251052260398865,4.747964590787888,-0.01069172205461655])
rotate([0.12331621659602246, -0.338651121781824, 101.80605090791137])
cube([2.4825835227966673,1.8788958527148234,0.20174257340841006],center=true);
//gt label: wing
color([0.0,0.5,1.0])
translate([-3.0894965864717956,-2.9681333154439926,-10.202635824680328])
rotate([77.24514710513878, 73.15612006556658, 168.63426145968305])
cube([4.768844209611418,3.9913301169872293,0.629796823486688],center=true);
//gt label: wing
color([0.0,0.5,1.0])
translate([-2.3071946017444134,-3.455677106976509,-5.0834157690405855])
rotate([16.77675236368178, 85.65319604123253, 105.57186497593746])
cube([4.497303031384947,2.730496060103179,0.8894881326705244],center=true);
//gt label: tail
color([1.0,0.5,0.0])
translate([-15.937966704368591,1.0895324032753708,-0.02831026184139773])
rotate([-0.3232861672747573, 0.5708163948743981, 73.3102113520645])
cube([5.618372149765493,2.009373698383577,0.506643163971603],center=true);
//gt label: tail
color([1.0,0.5,0.0])
translate([-15.001116693019867,-2.1231980063021183,-4.4619785994291306])
rotate([96.46600811574525, -69.77824239923142, -6.502507497427613])
cube([6.3349770754575765,2.0700482651591328,0.14695360208862068],center=true);
//gt label: wing
color([0.0,0.5,1.0])
translate([-5.956139415502548,-2.54578173160553,15.436067432165146])
rotate([-101.29689758859499, 70.52081234569397, -10.112066769377915])
cube([6.4112526550889095,2.4928508140146914,0.3505952330306386],center=true);

```

Task:

```

//gt label: ***
translate([1.788662485778332,-4.24810316413641,4.329006001353264])
rotate([5.257742675541998, -85.83462501802028, -98.78805930193221])
cube([4.208869822323326,3.552731908857825,1.3579544238746193],center=true);
//gt label: ***
translate([-17.680680751800537,-0.09093458065763116,-0.01035835164657329])
rotate([-0.12271285867400726, 0.4463140169460616, 76.286960688138])
cube([5.594065114855767,2.211204208433628,0.6109681120142345],center=true);
//gt label: ***
translate([-2.6921517401933674,-3.1398325599730015,-8.746909275650978])
rotate([112.13637190067487, -75.12611967736886, -20.983249684429193])
cube([4.473304972052578,2.768377121537928,0.5180199397727886],center=true);

```

```

//gt label: ***
translate([-5.248141549527645,-2.4729768000543118,14.026461839675903])
rotate([-110.65534389727655, 69.0608673104898, -21.212035742382476])
cube([6.437081620097162,1.4740151166915916,0.3055525664240132],center=true);

//gt label: ***
translate([1.7925461940467355,-4.249418154358864,-4.342959076166153])
rotate([-173.46678831919925, -85.80540001321393, 80.03467039580622])
cube([4.222032018005853,3.5428266599774396,1.3572934456169667],center=true);
//gt label: ***
translate([18.883921802043915,-3.377793747931719,-0.0054192187963053445])
rotate([-52.09877395163174, -89.8803221224425, -127.95469705893517])
cube([1.7406602203846013,1.6422848962247458,1.115490552037962],center=true);
//gt label: ***
translate([-15.522877275943756,-1.9791559688746931,-0.027850332844536762])
rotate([-177.88706452954585, -51.650273502731835, 79.08214167670563])
cube([2.970514353364778,2.878327351063629,2.7701754495502247],center=true);
//gt label: ***
translate([-6.000542156398296,-2.798768598586321,-0.010049709017039275])
rotate([90.00454549265245, 0.07107798946183885, -1.6802750977639527])
cube([14.244629740715032,3.8977949321270002,3.760322518646719],center=true);
//gt label: ***
translate([-5.248727947473526,-2.4745253659784794,-14.013840556144714])
rotate([109.89424263203908, -69.12760625537017, -20.417955850814955])
cube([6.435828916728497,1.4722913689911428,0.3030487219803177],center=true);
//gt label: ***
translate([-1.375533966347575,-3.8190151751041412,-4.19157087802887])
rotate([-170.30973055281905, -85.3349746501877, -99.51727931068837])
cube([4.165925495326521,2.2408275492489347,0.7595643633976623],center=true);
//gt label: ***
translate([-19.0590101480484,3.899596743285656,-0.015259650099324062])
rotate([179.87360191101203, -0.1504050145781123, -82.24047650306181])
cube([2.9095115512609544,1.5957570262253378,0.17636689124628913],center=true);
//gt label: ***
translate([-1.3676349073648455,-3.8242382556200023,4.198714606463909])
rotate([168.51254903240823, 85.14183180245382, -101.15045847816913])
cube([4.160876572132112,2.247832566499712,0.7658232701942345],center=true);
//gt label: ***
translate([9.872481897473335,-3.1046685576438904,-0.01761319261277086])
rotate([0.18251522455821348, -0.170573144795035, 0.08616103231700017])
cube([14.553167670965198,3.7681866437196785,3.739449456334119],center=true);
//gt label: ***
translate([-2.6840487122535706,-3.134591039270163,8.759698569774628])
rotate([-112.97692722512515, 75.05406084693053, -21.641985213729217])
cube([4.461636841297151,2.7660100162029293,0.5161132244393295],center=true);
//gt label: ***
translate([-18.41372162103653,-1.5141951572149992,-3.6957982555031776])
rotate([117.77855361825083, -67.89409558375439, -27.545279549129397])
cube([5.076169185340406,1.4379124063998556,0.12569904560223977],center=true);
//gt label: ***
translate([-18.50606679916382,-1.5162854548543692,3.581559658050537])
rotate([-121.4253857359514, 71.25195714953539, -32.351150232989944])
cube([5.068529620766643,1.4543186407536397,0.12695063487629138],center=true);

```

```

//gt label: engine
translate ([1.788662485778332, -4.24810316413641, 4.329006001353264])
rotate ([5.257742675541998, -85.83462501802028, -98.78805930193221])
cube ([4.208869822323326, 3.552731908857825, 1.3579544238746193], center=true);
//gt label: tail
translate ([-17.680680751800537, -0.09093458065763116, -0.01035835164657329])
rotate ([-0.12271285867400726, 0.4463140169460616, 76.286960688138])
cube ([5.594065114855767, 2.211204208433628, 0.6109681120142345], center=true);
//gt label: wing
translate ([-2.6921517401933674, -3.1398325599730015, -8.746909275650978])
rotate ([112.13637190067487, -75.12611967736886, -20.983249684429193])
cube ([4.473304972052578, 2.768377121537928, 0.5180199397727886], center=true);
//gt label: wing
translate ([-5.248141549527645, -2.4729768000543118, 14.026461839675903])
rotate ([-110.65534389727655, 69.0608673104898, -21.212035742382476])
cube ([6.437081620097162, 1.4740151166915916, 0.3055525664240132], center=true);

//gt label: engine
translate ([1.7925461940467355, -4.249418154358864, -4.342959076166153])
rotate ([-173.46678831919925, -85.80540001321393, 80.03467039580622])
cube ([4.222032018005853, 3.5428266599774396, 1.3572934456169667], center=true);
//gt label: body
translate ([18.883921802043915, -3.377793747931719, -0.0054192187963053445])
rotate ([-52.09877395163174, -89.8803221224425, -127.95469705893517])
cube ([1.7406602203846013, 1.6422848962247458, 1.115490552037962], center=true);
//gt label: tail
translate ([-15.522877275943756, -1.9791559688746931, -0.027850332844536762])
rotate ([-177.88706452954585, -51.650273502731835, 79.08214167670563])
cube ([2.970514353364778, 2.878327351063629, 2.7701754495502247], center=true);
//gt label: body
translate ([-6.000542156398296, -2.798768598586321, -0.010049709017039275])
rotate ([90.00454549265245, 0.07107798946183885, -1.6802750977639527])
cube ([14.244629740715032, 3.8977949321270002, 3.760322518646719], center=true);
//gt label: wing
translate ([-5.248727947473526, -2.4745253659784794, -14.013840556144714])
rotate ([109.89424263203908, -69.12760625537017, -20.417955850814955])
cube ([6.435828916728497, 1.4722913689911428, 0.3030487219803177], center=true);
//gt label: wing
translate ([-1.375533966347575, -3.8190151751041412, -4.19157087802887])
rotate ([-170.30973055281905, -85.3349746501877, -99.51727931068837])
cube ([4.165925495326521, 2.2408275492489347, 0.7595643633976623], center=true);
//gt label: tail
translate ([-19.0590101480484, 3.899596743285656, -0.015259650099324062])
rotate ([179.87360191101203, -0.1504050145781123, -82.24047650306181])
cube ([2.9095115512609544, 1.5957570262253378, 0.17636689124628913], center=true);
//gt label: wing
translate ([-1.3676349073648455, -3.8242382556200023, 4.198714606463909])
rotate ([168.51254903240823, 85.14183180245382, -101.15045847816913])
cube ([4.160876572132112, 2.247832566499712, 0.7658232701942345], center=true);
//gt label: body
translate ([9.872481897473335, -3.1046685576438904, -0.01761319261277086])
rotate ([0.18251522455821348, -0.170573144795035, 0.08616103231700017])
cube ([14.553167670965198, 3.7681866437196785, 3.739449456334119], center=true);
//gt label: wing
translate ([-2.6840487122535706, -3.134591039270163, 8.759698569774628])
rotate ([-112.97692722512515, 75.05406084693053, -21.641985213729217])

```



```

cube([4.461636841297151,2.7660100162029293,0.5161132244393295],center=true);
//gt label: tail
translate([-18.41372162103653,-1.5141951572149992,-3.6957982555031776])
rotate([117.77855361825083,-67.89409558375439,-27.545279549129397])
cube([5.076169185340406,1.4379124063998556,0.12569904560223977],center=true);
//gt label: tail
translate([-18.50606679916382,-1.5162854548543692,3.581559658050537])
rotate([-121.4253857359514,71.25195714953539,-32.351150232989944])
cube([5.068529620766643,1.4543186407536397,0.12695063487629138],center=true);

```

Airplane^{Cube} Question: 7

The following code describes a model airplane.

The airplane is consist of four parts, namely wing, body, tail, and engine.

Please annotate the following code to classify every code block. Block is defined with the 'code' sentence.

Here are an annotation example, please comment the given code following the structure of example.

Notice 1, all annotation should start with '//gt label:'.add()

Notice 2, the labels given in the example program have nothing to do with what you will predict for the task program. Please use the metioned parts to label.

Please think step by step

Example:

```

$vpf=10;
//gt label: body
color([1.0,0.0,1.0])
translate([9.250219017267227,-2.7869662642478943,-0.008156453259289322])
rotate([-179.78543394629193,-0.2159261053351588,-2.3822341519711294])
cube([12.607995122671129,4.187371432781223,3.7102610990405083],center=true);
//gt label: wing
color([0.0,0.5,1.0])
translate([-5.955269038677215,-2.538721188902855,-15.464503020048141])
rotate([102.14512608409758,-70.4738708896967,-10.544348599040614])
cube([6.423201896250253,2.4891043826937786,0.352352557238204],center=true);
//gt label: body
color([1.0,0.0,1.0])
translate([-13.456687927246094,-0.8307515271008015,-0.053393583802971954])
rotate([90.48750093436946,39.4193184735338,82.3074203037256])
cube([3.2380105741322205,3.087527584284884,3.074986208230599],center=true);
//gt label: wing
color([0.0,0.5,1.0])
translate([-3.0888161435723305,-2.9815239645540714,10.20038940012455])
rotate([-77.24801015480405,-73.14456579408406,168.52065000478333])
cube([4.764881618320958,3.9973920211196146,0.6270741811022208],center=true);
//gt label: wing
color([0.0,0.5,1.0])
translate([-2.3069106228649616,-3.453640080988407,5.067141279578209])
rotate([-14.840335154128773,-85.67072608688505,103.14779084500344])
cube([4.478208012878897,2.742571923881772,0.8824746124446424],center=true);
//gt label: tail
color([1.0,0.5,0.0])
translate([-15.14525830745697,-2.1386545710265636,4.398029260337353])
rotate([-97.26073421269203,73.53773194259227,-7.857569898943973])
cube([6.187138408422474,2.1074002981185984,0.14533865149134137],center=true);

```

```

//gt label: engine
color ([0.5 ,0.75 ,0.5])
translate ([1.7339041456580162 , -3.9094237238168716 , -5.73966309428215])
rotate ([122.74698251237912 , 83.2193008318756 , -148.62097763190738])
cube ([5.822300128638749 , 4.8442387580871635 , 1.6862346231937435] , center=true);
//gt label: body
color ([1.0 ,0.0 ,1.0])
translate ([-4.661916941404343 , -2.4578636325895786 , -0.0037767807953061052])
rotate ([-179.83167033907282 , 0.08575659880190455 , -7.585001348801497])
cube ([12.934949472546581 , 4.321432821452619 , 3.9644836634397516] , center=true);
//gt label: body
color ([1.0 ,0.0 ,1.0])
translate ([17.47809112071991 , -3.1384810991585255 , -0.013883557548979323])
rotate ([-155.09306989154229 , 89.77337564724621 , 24.290506036694723])
cube ([1.5893155615776815 , 1.4067392703146249 , 1.014795145019961] , center=true);
//gt label: engine
color ([0.5 ,0.75 ,0.5])
translate ([1.735662519931793 , -3.925429806113243 , 5.74006550014019])
rotate ([-124.81888217218437 , -83.2310042331682 , -146.24604039789486])
cube ([5.833983421325687 , 4.84729737043381 , 1.6854473296552923] , center=true);
//gt label: tail
color ([1.0 ,0.5 ,0.0])
translate ([-17.251052260398865 , 4.747964590787888 , -0.01069172205461655])
rotate ([0.12331621659602246 , -0.338651121781824 , 101.80605090791137])
cube ([2.4825835227966673 , 1.8788958527148234 , 0.20174257340841006] , center=true);
//gt label: wing
color ([0.0 ,0.5 ,1.0])
translate ([-3.0894965864717956 , -2.9681333154439926 , -10.202635824680328])
rotate ([77.24514710513878 , 73.15612006556658 , 168.63426145968305])
cube ([4.768844209611418 , 3.9913301169872293 , 0.629796823486688] , center=true);
//gt label: wing
color ([0.0 ,0.5 ,1.0])
translate ([-2.3071946017444134 , -3.455677106976509 , -5.0834157690405855])
rotate ([16.77675236368178 , 85.65319604123253 , 105.57186497593746])
cube ([4.497303031384947 , 2.730496060103179 , 0.8894881326705244] , center=true);
//gt label: tail
color ([1.0 ,0.5 ,0.0])
translate ([-15.937966704368591 , 1.0895324032753708 , -0.02831026184139773])
rotate ([-0.3232861672747573 , 0.5708163948743981 , 73.3102113520645])
cube ([5.618372149765493 , 2.009373698383577 , 0.506643163971603] , center=true);
//gt label: tail
color ([1.0 ,0.5 ,0.0])
translate ([-15.001116693019867 , -2.1231980063021183 , -4.4619785994291306])
rotate ([96.46600811574525 , -69.77824239923142 , -6.502507497427613])
cube ([6.3349770754575765 , 2.0700482651591328 , 0.14695360208862068] , center=true);
//gt label: wing
color ([0.0 ,0.5 ,1.0])
translate ([-5.956139415502548 , -2.54578173160553 , 15.436067432165146])
rotate ([-101.29689758859499 , 70.52081234569397 , -10.112066769377915])
cube ([6.4112526550889095 , 2.4928508140146914 , 0.3505952330306386] , center=true);

```

Task:

```

//gt label: ***
translate ([-4.394926801323891 , -1.2792529352009296 , 15.070446878671646])
rotate ([-108.04407198002691 , 65.01144909189343 , -17.875282409222383])
cube ([7.178377956151968 , 1.498098615556976 , 0.3612455166876477] , center=true);

```

```

//gt label: ***
translate([-16.08968436717987,-1.521627577021718,3.321653418242932])
rotate([-115.59567814619595, 73.28218546640423, -26.52712823939206])
cube([5.262804366648199,1.4352577365934929,0.1354673760943259],center=true);
//gt label: ***
translate([-5.3131526336073875,-2.1989681199193005,0.017225995106855407])
rotate([90.06938876635326, 0.09602302655894807, -2.462319844903011])
cube([12.416756451129913,3.3480105921626113,3.316315393894915],center=true);
//gt label: ***
translate([-16.616878658533096,3.770411349833012,0.05463805631734431])
rotate([0.06876515030771553, -0.08831176407319571, 97.5747663466869])
cube([2.4647250212729257,1.5671994257718742,0.14074128237552955],center=true);
//gt label: ***
translate([17.356667816638947,-2.814698461443186,0.03309953695861624])
rotate([72.53444119050451, 89.73536869578345, -107.8894826657378])
cube([1.7013720702379973,1.6735716443509072,1.1193613521755008],center=true);
//gt label: ***
translate([-0.07860784709919244,-3.1628256291151047,4.195363819599152])
rotate([-173.73234439557632, 77.8640133450877, -84.83953194451486])
cube([4.951052926480771,2.581791114062071,0.9215742629021417],center=true);
//gt label: ***
translate([-0.07353749999310824,-3.1678919680416584,-4.189077354967594])
rotate([173.28404519156922, -77.98195523414104, -84.36781291750843])
cube([4.959690719842912,2.5697099231183533,0.9189965296536695],center=true);
//gt label: ***
translate([8.878822177648544,-2.4167807400226597,0.02409586915746332])
rotate([179.79246555461484, -0.21620657500465373, -0.33374323508761633])
cube([13.283169046044353,3.4864939376711903,3.396264463663107],center=true);
//gt label: ***
translate([-15.576755404472351,0.2548976545222104,0.01998864725464954])
rotate([0.5050914169017917, 0.3444020031520882, 67.53598836906558])
cube([5.254709944128993,1.9854571856558405,0.38667230634018807],center=true);
//gt label: ***
translate([-1.278454065322876,-2.111927978694439,-9.177337661385536])
rotate([114.55364480684531, -70.30537153883601, -22.959150685791794])
cube([4.869928397238255,2.8752767294645345,0.6428824923932591],center=true);
//gt label: ***
translate([-1.2785014975816014,-2.1098932065069675,9.173748791217804])
rotate([-114.59611011215691, 70.25127070173833, -22.933204052317848])
cube([4.858209043741231,2.8776821494102527,0.6448019109666414],center=true);
//gt label: ***
translate([3.775234073400497,-3.440604917705059,4.806764200329781])
rotate([26.729296085762712, -83.92278461743443, -122.60319635134954])
cube([5.179474800825126,4.009479768574247,1.7138132546097058],center=true);
//gt label: ***
translate([-13.754878044128418,-1.4589551184326408,0.03167223767377428])
rotate([-130.5612156118152, 1.1388244509399705, -6.958652550439094])
cube([2.460635807365352,2.3930746503175624,2.3262117616832976],center=true);
//gt label: ***
translate([3.7751861289143567,-3.4400390088558197,-4.794585891067983])
rotate([-153.61629884770636, -84.13249479045038, 57.786741596795316])
cube([5.168773345649248,3.9960995689034524,1.7041274439543503],center=true);
//gt label: ***
translate([-4.391236305236816,-1.2839819211512804,-15.079670250415802])
rotate([107.8511410121114, -65.04627673784022, -17.647871779339702])
cube([7.169134914875031,1.4960507303476438,0.360361002385624],center=true);
//gt label: ***

```

```
translate([-15.925291329622269,-1.5076432563364506,-3.3586171828210354])
rotate([110.77806988286113,-68.15934253758837,-20.309029904131258])
cube([5.273761115968228,1.4222018793225337,0.1354826532769974],center=true);
```

Airplane^{Cube} Answer: 7

```
//gt label: wing
translate([-4.394926801323891,-1.2792529352009296,15.070446878671646])
rotate([-108.04407198002691,65.01144909189343,-17.875282409222383])
cube([7.178377956151968,1.498098615556976,0.3612455166876477],center=true);

//gt label: tail
translate([-16.08968436717987,-1.521627577021718,3.321653418242932])
rotate([-115.59567814619595,73.28218546640423,-26.52712823939206])
cube([5.262804366648199,1.4352577365934929,0.1354673760943259],center=true);

//gt label: body
translate([-5.3131526336073875,-2.1989681199193005,0.017225995106855407])
rotate([90.06938876635326,0.09602302655894807,-2.462319844903011])
cube([12.416756451129913,3.3480105921626113,3.316315393894915],center=true);

//gt label: tail
translate([-16.616878658533096,3.770411349833012,0.05463805631734431])
rotate([0.06876515030771553,-0.08831176407319571,97.5747663466869])
cube([2.4647250212729257,1.5671994257718742,0.14074128237552955],center=true);

//gt label: engine
translate([17.356667816638947,-2.814698461443186,0.03309953695861624])
rotate([72.53444119050451,89.73536869578345,-107.8894826657378])
cube([1.7013720702379973,1.6735716443509072,1.1193613521755008],center=true);

//gt label: wing
translate([-0.07860784709919244,-3.1628256291151047,4.195363819599152])
rotate([-173.73234439557632,77.8640133450877,-84.83953194451486])
cube([4.951052926480771,2.581791114062071,0.9215742629021417],center=true);

//gt label: wing
translate([-0.07353749999310824,-3.1678919680416584,-4.189077354967594])
rotate([173.28404519156922,-77.98195523414104,-84.36781291750843])
cube([4.959690719842912,2.5697099231183533,0.9189965296536695],center=true);

//gt label: body
translate([8.878822177648544,-2.4167807400226597,0.02409586915746332])
rotate([179.79246555461484,-0.21620657500465373,-0.33374323508761633])
cube([13.283169046044353,3.4864939376711903,3.396264463663107],center=true);

//gt label: tail
translate([-15.576755404472351,0.2548976545222104,0.01998864725464954])
rotate([0.5050914169017917,0.3444020031520882,67.53598836906558])
cube([5.254709944128993,1.9854571856558405,0.38667230634018807],center=true);

//gt label: wing
translate([-1.278454065322876,-2.111927978694439,-9.177337661385536])
rotate([114.55364480684531,-70.30537153883601,-22.959150685791794])
cube([4.869928397238255,2.8752767294645345,0.6428824923932591],center=true);
```

```

//gt label: wing
translate([-1.2785014975816014,-2.1098932065069675,9.173748791217804])
rotate([-114.59611011215691, 70.25127070173833, -22.933204052317848])
cube([4.858209043741231,2.8776821494102527,0.6448019109666414],center=true);

//gt label: engine
translate([3.775234073400497,-3.440604917705059,4.806764200329781])
rotate([26.729296085762712, -83.92278461743443, -122.60319635134954])
cube([5.179474800825126,4.009479768574247,1.7138132546097058],center=true);

//gt label: body
translate([-13.754878044128418,-1.4589551184326408,0.03167223767377428])
rotate([-130.5612156118152, 1.1388244509399705, -6.958652550439094])
cube([2.460635807365352,2.3930746503175624,2.3262117616832976],center=true);

//gt label: engine
translate([3.7751861289143567,-3.4400390088558197,-4.794585891067983])
rotate([-153.61629884770636, -84.13249479045038, 57.786741596795316])
cube([5.168773345649248,3.9960995689034524,1.7041274439543503],center=true);

//gt label: wing
translate([-4.391236305236816,-1.2839819211512804,-15.079670250415802])
rotate([107.8511410121114, -65.04627673784022, -17.647871779339702])
cube([7.169134914875031,1.4960507303476438,0.360361002385624],center=true);

//gt label: tail
translate([-15.925291329622269,-1.5076432563364506,-3.3586171828210354])
rotate([110.77806988286113, -68.15934253758837, -20.309029904131258])
cube([5.273761115968228,1.4222018793225337,0.1354826532769974],center=true);

```

Airplane^{Cube} Question: 8

The following code describes a model airplane.

The airplane is consist of four parts, namely wing, body, tail, and engine.

Please annotate the following code to classify every code block. Block is defined with the 'code' sentence.

Here are an annotation example, please comment the given code following the structure of example.

Notice 1, all annotation should start with '//gt label:'.add()

Notice 2, the labels given in the example program have noting to do with what you will predict for the task program. Please use the metioned parts to label.

Please think step by step

Example:

```

$vpf=10;
//gt label: body
color([1.0,0.0,1.0])
translate([9.250219017267227,-2.7869662642478943,-0.008156453259289322])
rotate([-179.78543394629193, -0.2159261053351588, -2.3822341519711294])
cube([12.607995122671129,4.187371432781223,3.7102610990405083],center=true);
//gt label: wing
color([0.0,0.5,1.0])
translate([-5.955269038677215,-2.538721188902855,-15.464503020048141])
rotate([102.14512608409758, -70.4738708896967, -10.544348599040614])
cube([6.423201896250253,2.4891043826937786,0.352352557238204],center=true);

```

```

//gt label: body
color ([1.0 ,0.0 ,1.0])
translate ([-13.456687927246094, -0.8307515271008015, -0.053393583802971954])
rotate ([90.48750093436946, 39.4193184735338, 82.3074203037256])
cube ([3.2380105741322205, 3.087527584284884, 3.074986208230599], center=true);
//gt label: wing
color ([0.0 ,0.5 ,1.0])
translate ([-3.0888161435723305, -2.9815239645540714, 10.20038940012455])
rotate ([-77.24801015480405, -73.14456579408406, 168.52065000478333])
cube ([4.764881618320958, 3.9973920211196146, 0.6270741811022208], center=true);
//gt label: wing
color ([0.0 ,0.5 ,1.0])
translate ([-2.3069106228649616, -3.453640080988407, 5.067141279578209])
rotate ([-14.840335154128773, -85.67072608688505, 103.14779084500344])
cube ([4.478208012878897, 2.742571923881772, 0.8824746124446424], center=true);
//gt label: tail
color ([1.0 ,0.5 ,0.0])
translate ([-15.14525830745697, -2.1386545710265636, 4.398029260337353])
rotate ([-97.26073421269203, 73.53773194259227, -7.857569898943973])
cube ([6.187138408422474, 2.1074002981185984, 0.14533865149134137], center=true);
//gt label: engine
color ([0.5 ,0.75 ,0.5])
translate ([1.7339041456580162, -3.9094237238168716, -5.73966309428215])
rotate ([122.74698251237912, 83.2193008318756, -148.62097763190738])
cube ([5.822300128638749, 4.8442387580871635, 1.6862346231937435], center=true);
//gt label: body
color ([1.0 ,0.0 ,1.0])
translate ([-4.661916941404343, -2.4578636325895786, -0.0037767807953061052])
rotate ([-179.83167033907282, 0.08575659880190455, -7.585001348801497])
cube ([12.934949472546581, 4.321432821452619, 3.9644836634397516], center=true);
//gt label: body
color ([1.0 ,0.0 ,1.0])
translate ([17.47809112071991, -3.1384810991585255, -0.013883557548979323])
rotate ([-155.09306989154229, 89.77337564724621, 24.290506036694723])
cube ([1.5893155615776815, 1.4067392703146249, 1.014795145019961], center=true);
//gt label: engine
color ([0.5 ,0.75 ,0.5])
translate ([1.735662519931793, -3.925429806113243, 5.74006550014019])
rotate ([-124.81888217218437, -83.2310042331682, -146.24604039789486])
cube ([5.833983421325687, 4.84729737043381, 1.6854473296552923], center=true);
//gt label: tail
color ([1.0 ,0.5 ,0.0])
translate ([-17.251052260398865, 4.747964590787888, -0.01069172205461655])
rotate ([0.12331621659602246, -0.338651121781824, 101.80605090791137])
cube ([2.4825835227966673, 1.8788958527148234, 0.20174257340841006], center=true);
//gt label: wing
color ([0.0 ,0.5 ,1.0])
translate ([-3.0894965864717956, -2.9681333154439926, -10.202635824680328])
rotate ([77.24514710513878, 73.15612006556658, 168.63426145968305])
cube ([4.768844209611418, 3.9913301169872293, 0.629796823486688], center=true);
//gt label: wing
color ([0.0 ,0.5 ,1.0])
translate ([-2.3071946017444134, -3.455677106976509, -5.0834157690405855])
rotate ([16.77675236368178, 85.65319604123253, 105.57186497593746])
cube ([4.497303031384947, 2.730496060103179, 0.8894881326705244], center=true);
//gt label: tail
color ([1.0 ,0.5 ,0.0])
translate ([-15.937966704368591, 1.0895324032753708, -0.02831026184139773])

```

```

rotate([-0.3232861672747573, 0.5708163948743981, 73.3102113520645])
cube([5.618372149765493,2.009373698383577,0.506643163971603],center=true);
//gt label: tail
color([1.0,0.5,0.0])
translate([-15.001116693019867,-2.1231980063021183,-4.4619785994291306])
rotate([96.46600811574525, -69.77824239923142, -6.502507497427613])
cube([6.3349770754575765,2.0700482651591328,0.14695360208862068],center=true);
//gt label: wing
color([0.0,0.5,1.0])
translate([-5.956139415502548,-2.54578173160553,15.436067432165146])
rotate([-101.29689758859499, 70.52081234569397, -10.112066769377915])
cube([6.4112526550889095,2.4928508140146914,0.3505952330306386],center=true);

```

Task:

```

//gt label: ***
translate([0.1395721617154778,-2.352468129247427,9.791966304183006])
rotate([139.33973604036166, -80.24403496634767, -49.73937798800217])
cube([5.137044750154021,2.92815847322345,0.5638726428151167],center=true);
//gt label: ***
translate([0.14538773568347096,-2.3451469652354717,-9.795063436031342])
rotate([-138.12449044434152, 80.1568701146726, -48.521086282423894])
cube([5.146000124514106,2.927572280168537,0.5640799924731289],center=true);
//gt label: ***
translate([10.0747437030077,-1.9083327427506447,-0.0006982492050154837])
rotate([-0.05892903135943894, -0.1617540173190407, 0.31280948186522095])
cube([13.750086873769764,3.3232675492763555,3.0810356140136745],center=true);
//gt label: ***
translate([4.3768709897994995,-3.060211520642042,4.160130359232426])
rotate([-5.229159361927696, -81.16684911915515, -88.20017514034282])
cube([4.763805940747264,3.654159493744377,1.3818683754652792],center=true);
//gt label: ***
translate([0.4880200093612075,-2.885601185262203,-4.470735639333725])
rotate([-3.2670617126984935, -80.98235340254361, -88.4849278389839])
cube([4.582867138087751,2.5652199424803266,0.7969965087249888],center=true);
//gt label: ***
translate([-17.744829654693604,-0.430249976925552,-2.812629472464323])
rotate([109.54628278179611, -67.44821910385404, -18.676597301557255])
cube([4.80292577296496,1.3747275155037788,0.1127774303313393],center=true);
//gt label: ***
translate([18.40419828891754,-2.1205524541437626,0.019635658536572023])
rotate([110.84692527689855, -89.96841412993534, -110.71131177578891])
cube([1.4589620847255034,1.4235505741089898,0.9601690620184421],center=true);
//gt label: ***
translate([-3.2276695221662526,-1.5527412947267292,14.28232640028])
rotate([-105.93359310550335, 63.28230851015245, -11.98841689226413])
cube([8.033440411090854,1.4101956784725238,0.2838211390189947],center=true);

//gt label: ***
translate([-14.301597625017164,-0.6934788310900333,-0.03058212809264662])
rotate([-128.50664852923367, 0.6251240203599325, -9.504609084128793])
cube([3.204482421278968,2.29870596900584,2.084826435893789],center=true);
//gt label: ***
translate([-17.90530353784561,-0.4233527835458517,2.74598540738225])
rotate([-113.68592610462156, 72.64425720741707, -23.812125606164575])
cube([4.84480548650027,1.3723911438137533,0.11228706222028623],center=true);
//gt label: ***

```

```

translate([-3.2160296663641934,-1.5422366373240946,-14.229494035243988])
rotate([106.24634760227764,-63.21570890706951,-11.959269467950147])
cube([8.041014820337296,1.4166125562042031,0.28260418912396074],center=true);
//gt label: ***
translate([-16.721850037574768,1.0338530782610178,-0.026017392665380612])
rotate([0.49425234860228584,0.14776270423852833,71.35075479544959])
cube([4.3274287506938025,2.0662538893520894,0.38675008807331335],center=true);
//gt label: ***
translate([0.48188690561801206,-2.8740322217345238,4.474218785762787])
rotate([176.95603396313686,-81.0974516047518,91.15791240974234])
cube([4.590496048331262,2.5631251372396955,0.7960271183401371],center=true);
//gt label: ***
translate([4.39149159938097,-3.0657284148037434,-4.154196307063103])
rotate([175.11500242405285,-81.1880658416691,91.50513121070134])
cube([4.7588029131293315,3.6628702282905587,1.38086758553982],center=true);
//gt label: ***
translate([-18.29918920993805,3.8204633444547653,-0.022211763862287633])
rotate([-0.03225921756317605,0.06588269045209724,94.89455426434833])
cube([1.9065870717168263,1.35996676050132,0.1350036438088867],center=true);
//gt label: ***
translate([-4.930363856256008,-1.9074390083551407,-0.016253249632427386])
rotate([-179.9438339975719,-0.03410166617695409,-2.913290948596023])
cube([13.805099278688434,3.2583341188728885,3.1610092706978397],center=true);

```

Airplane^{Cube} Answer: 8

```

//gt label: wing
translate([0.1395721617154778,-2.352468129247427,9.791966304183006])
rotate([139.33973604036166,-80.24403496634767,-49.73937798800217])
cube([5.137044750154021,2.92815847322345,0.5638726428151167],center=true);
//gt label: wing
translate([0.14538773568347096,-2.3451469652354717,-9.795063436031342])
rotate([-138.12449044434152,80.1568701146726,-48.521086282423894])
cube([5.146000124514106,2.927572280168537,0.5640799924731289],center=true);
//gt label: body
translate([10.0747437030077,-1.9083327427506447,-0.0006982492050154837])
rotate([-0.05892903135943894,-0.1617540173190407,0.31280948186522095])
cube([13.750086873769764,3.3232675492763555,3.0810356140136745],center=true);
//gt label: engine
translate([4.3768709897994995,-3.060211520642042,4.160130359232426])
rotate([-5.229159361927696,-81.16684911915515,-88.20017514034282])
cube([4.763805940747264,3.654159493744377,1.3818683754652792],center=true);
//gt label: tail
translate([0.4880200093612075,-2.885601185262203,-4.470735639333725])
rotate([-3.2670617126984935,-80.98235340254361,-88.4849278389839])
cube([4.582867138087751,2.5652199424803266,0.7969965087249888],center=true);
//gt label: tail
translate([-17.744829654693604,-0.430249976925552,-2.812629472464323])
rotate([109.54628278179611,-67.44821910385404,-18.676597301557255])
cube([4.80292577296496,1.3747275155037788,0.1127774303313393],center=true);
//gt label: body
translate([18.40419828891754,-2.1205524541437626,0.019635658536572023])
rotate([110.84692527689855,-89.96841412993534,-110.71131177578891])
cube([1.4589620847255034,1.4235505741089898,0.9601690620184421],center=true);
//gt label: wing
translate([-3.2276695221662526,-1.5527412947267292,14.28232640028])

```



```

rotate([-105.93359310550335, 63.28230851015245, -11.98841689226413])
cube([8.033440411090854,1.4101956784725238,0.2838211390189947],center=true);
//gt label: body
translate([-14.301597625017164,-0.6934788310900333,-0.03058212809264662])
rotate([-128.50664852923367, 0.6251240203599325, -9.504609084128793])
cube([3.204482421278968,2.29870596900584,2.084826435893789],center=true);
//gt label: tail
translate([-17.90530353784561,-0.4233527835458517,2.74598540738225])
rotate([-113.68592610462156, 72.64425720741707, -23.812125606164575])
cube([4.84480548650027,1.3723911438137533,0.11228706222028623],center=true);
//gt label: wing
translate([-3.2160296663641934,-1.5422366373240946,-14.229494035243988])
rotate([106.24634760227764, -63.21570890706951, -11.959269467950147])
cube([8.041014820337296,1.4166125562042031,0.28260418912396074],center=true);
//gt label: tail
translate([-16.721850037574768,1.0338530782610178,-0.026017392665380612])
rotate([0.49425234860228584, 0.14776270423852833, 71.35075479544959])
cube([4.3274287506938025,2.0662538893520894,0.38675008807331335],center=true);
//gt label: tail
translate([0.48188690561801206,-2.8740322217345238,4.474218785762787])
rotate([176.95603396313686, -81.0974516047518, 91.15791240974234])
cube([4.590496048331262,2.5631251372396955,0.7960271183401371],center=true);
//gt label: engine
translate([4.39149159938097,-3.0657284148037434,-4.154196307063103])
rotate([175.11500242405285, -81.1880658416691, 91.50513121070134])
cube([4.7588029131293315,3.6628702282905587,1.38086758553982],center=true);
//gt label: tail
translate([-18.29918920993805,3.8204633444547653,-0.022211763862287633])
rotate([-0.03225921756317605, 0.06588269045209724, 94.89455426434833])
cube([1.9065870717168263,1.35996676050132,0.1350036438088867],center=true);
//gt label: body
translate([-4.930363856256008,-1.9074390083551407,-0.016253249632427386])
rotate([-179.9438339975719, -0.03410166617695409, -2.913290948596023])
cube([13.805099278688434,3.2583341188728885,3.1610092706978397],center=true);

```

Airplane^{Cube} Question: 9

The following code describes a model airplane.

The airplane is consist of four parts, namely wing, body, tail, and engine.

Please annotate the following code to classify every code block. Block is defined with the 'code' sentence.

Here are an annotation example, please comment the given code following the structure of example.

Notice 1, all annotation should start with '//gt label:'.add()

Notice 2, the labels given in the example program have noting to do with what you will predict for the task program. Please use the metioned parts to label.

Please think step by step

Example:

```

$vpf=10;
//gt label: body
color([1.0,0.0,1.0])
translate([9.250219017267227,-2.7869662642478943,-0.008156453259289322])
rotate([-179.78543394629193, -0.2159261053351588, -2.3822341519711294])
cube([12.607995122671129,4.187371432781223,3.7102610990405083],center=true);

```

```

//gt label: wing
color ([0.0 ,0.5 ,1.0])
translate ([-5.955269038677215, -2.538721188902855, -15.464503020048141])
rotate ([102.14512608409758, -70.4738708896967, -10.544348599040614])
cube ([6.423201896250253, 2.4891043826937786, 0.352352557238204], center=true);
//gt label: body
color ([1.0 ,0.0 ,1.0])
translate ([-13.456687927246094, -0.8307515271008015, -0.053393583802971954])
rotate ([90.48750093436946, 39.4193184735338, 82.3074203037256])
cube ([3.2380105741322205, 3.087527584284884, 3.074986208230599], center=true);
//gt label: wing
color ([0.0 ,0.5 ,1.0])
translate ([-3.0888161435723305, -2.9815239645540714, 10.20038940012455])
rotate ([-77.24801015480405, -73.14456579408406, 168.52065000478333])
cube ([4.764881618320958, 3.9973920211196146, 0.6270741811022208], center=true);
//gt label: wing
color ([0.0 ,0.5 ,1.0])
translate ([-2.3069106228649616, -3.453640080988407, 5.067141279578209])
rotate ([-14.840335154128773, -85.67072608688505, 103.14779084500344])
cube ([4.478208012878897, 2.742571923881772, 0.8824746124446424], center=true);
//gt label: tail
color ([1.0 ,0.5 ,0.0])
translate ([-15.14525830745697, -2.1386545710265636, 4.398029260337353])
rotate ([-97.26073421269203, 73.53773194259227, -7.857569898943973])
cube ([6.187138408422474, 2.1074002981185984, 0.14533865149134137], center=true);
//gt label: engine
color ([0.5 ,0.75 ,0.5])
translate ([1.7339041456580162, -3.9094237238168716, -5.73966309428215])
rotate ([122.74698251237912, 83.2193008318756, -148.62097763190738])
cube ([5.822300128638749, 4.8442387580871635, 1.6862346231937435], center=true);
//gt label: body
color ([1.0 ,0.0 ,1.0])
translate ([-4.661916941404343, -2.4578636325895786, -0.0037767807953061052])
rotate ([-179.83167033907282, 0.08575659880190455, -7.585001348801497])
cube ([12.934949472546581, 4.321432821452619, 3.9644836634397516], center=true);
//gt label: body
color ([1.0 ,0.0 ,1.0])
translate ([17.47809112071991, -3.1384810991585255, -0.013883557548979323])
rotate ([-155.09306989154229, 89.77337564724621, 24.290506036694723])
cube ([1.5893155615776815, 1.4067392703146249, 1.014795145019961], center=true);
//gt label: engine
color ([0.5 ,0.75 ,0.5])
translate ([1.735662519931793, -3.925429806113243, 5.74006550014019])
rotate ([-124.81888217218437, -83.2310042331682, -146.24604039789486])
cube ([5.833983421325687, 4.84729737043381, 1.6854473296552923], center=true);
//gt label: tail
color ([1.0 ,0.5 ,0.0])
translate ([-17.251052260398865, 4.747964590787888, -0.01069172205461655])
rotate ([0.12331621659602246, -0.338651121781824, 101.80605090791137])
cube ([2.4825835227966673, 1.8788958527148234, 0.20174257340841006], center=true);
//gt label: wing
color ([0.0 ,0.5 ,1.0])
translate ([-3.0894965864717956, -2.9681333154439926, -10.202635824680328])
rotate ([77.24514710513878, 73.15612006556658, 168.63426145968305])
cube ([4.768844209611418, 3.9913301169872293, 0.629796823486688], center=true);
//gt label: wing
color ([0.0 ,0.5 ,1.0])
translate ([-2.3071946017444134, -3.455677106976509, -5.0834157690405855])

```

```

rotate([16.77675236368178, 85.65319604123253, 105.57186497593746])
cube([4.497303031384947,2.730496060103179,0.8894881326705244],center=true);
//gt label: tail
color([1.0,0.5,0.0])
translate([-15.937966704368591,1.0895324032753708,-0.02831026184139773])
rotate([-0.3232861672747573, 0.5708163948743981, 73.3102113520645])
cube([5.618372149765493,2.009373698383577,0.506643163971603],center=true);
//gt label: tail
color([1.0,0.5,0.0])
translate([-15.001116693019867,-2.1231980063021183,-4.4619785994291306])
rotate([96.46600811574525, -69.77824239923142, -6.502507497427613])
cube([6.3349770754575765,2.0700482651591328,0.14695360208862068],center=true);
//gt label: wing
color([0.0,0.5,1.0])
translate([-5.956139415502548,-2.54578173160553,15.436067432165146])
rotate([-101.29689758859499, 70.52081234569397, -10.112066769377915])
cube([6.4112526550889095,2.4928508140146914,0.3505952330306386],center=true);

```

Task:

```

//gt label: ***
translate([-16.244198381900787,3.9770762622356415,0.020410927536431714])
rotate([0.06403017678452493, -0.03616582926434156, 96.26688212727105])
cube([3.3333526924252554,3.012598548084502,0.8539620880037552],center=true);
//gt label: ***
translate([1.5317558497190475,-3.245669398456812,6.315561607480049])
rotate([-98.99188665652265, -87.27987052351041, -170.13743604175312])
cube([4.055972397327425,3.1934785470366487,1.0127947945147766],center=true);
//gt label: ***
translate([1.5379204042255878,-3.227167949080467,-6.3172900676727295])
rotate([97.1262167923495, 87.25562385375517, -171.83780961415437])
cube([4.067838452756413,3.185176160186539,1.0079878475517063],center=true);
//gt label: ***
translate([-1.2449732422828674,-1.9946955144405367,-5.819782018661499])
rotate([-164.40473879540548, 89.09340782190257, 107.06671287748098])
cube([3.559908829629422,1.6676128003746284,0.3743273438885852],center=true);
//gt label: ***
translate([-0.44552055187523365,-2.1844007819890976,9.866967871785164])
rotate([89.09857333755045, -3.7221445943485123, -0.5785436378204852])
cube([4.114125370979309,3.3347850851714647,0.3903822670690801],center=true);
//gt label: ***
translate([-18.74084234237671,-0.7481788797304034,-0.018264323298353674])
rotate([-90.3367547922255, 0.43941194456662264, -99.63211956933394])
cube([3.973097689449797,3.7492879107594534,2.205704525113123],center=true);
//gt label: ***
translate([-15.94958320260048,2.9519770480692387,-4.418304860591888])
rotate([30.725227974659525, 79.88779494462318, 121.69880396065606])
cube([2.6238515414297883,1.9309438951313895,0.2226733253337557],center=true);
//gt label: ***
translate([-0.6478673359379171,-2.020597625523805,-0.02491513849236071])
rotate([89.93857628703189, 0.0425459403879334, -0.3141172142512432])
cube([13.400581404566768,6.837305389344693,6.3146010786294955],center=true);
//gt label: ***
translate([-1.2532225623726845,-2.019860427826643,5.814606472849846])
rotate([-27.956041599082944, -88.98093705785995, 119.3737218433035])
cube([3.563234210014345,1.6704856790602218,0.3831672878004618],center=true);
//gt label: ***

```

```

translate([-12.366350814700127,-1.2520739436149593,-0.11220551561564213])
rotate([-103.72396532612704, 1.6194972180467142, -11.276210438047501])
cube([8.875710293650632,6.459756493568821,6.458946354687616],center=true);
//gt label: ***
translate([-15.861476808786392,2.865815069526434,4.376514069736004])
rotate([-133.09915450770217, 78.93165406355163, -41.339716660841084])
cube([2.700395323336145,1.9595001637935963,0.22765314904973308],center=true);
//gt label: ***
translate([-1.25363377854228,-1.992645375430584,14.331333041191101])
rotate([-65.03958423942369, -83.22311657857922, 154.3610847499535])
cube([4.595642089843752,3.310050237923865,0.38159024203196207],center=true);

//gt label: ***
translate([-1.266733380034566,-1.9144604168832302,-14.349747002124786])
rotate([66.30480939509344, 82.91899031387888, 155.6666353114684])
cube([4.616140201687818,3.2956336997449456,0.3755966690369005],center=true);
//gt label: ***
translate([11.498518735170364,-2.830627914518118,-0.0202592762070708])
rotate([90.36767205214585, 0.4214890946225669, -2.104899036616709])
cube([10.211443677544596,6.481690071523192,5.458570308983333],center=true);
//gt label: ***
translate([17.7198526263237,-2.0364367216825485,-0.012089737938367737])
rotate([-58.44085635399219, -89.6686644536583, -120.91141326043417])
cube([1.8085639551281938,0.9368238877505299,0.4937154147774409],center=true);
//gt label: ***
translate([-0.45887780375778675,-2.1787054277956486,-9.841369614005089])
rotate([-88.88397617834991, 3.8253918632044974, -0.9102185858638672])
cube([4.128761962056161,3.3460956811904916,0.3965248214080952],center=true);

```

Airplane^{Cube} Answer: 9

```

//gt label: tail
translate([-16.244198381900787,3.9770762622356415,0.020410927536431714])
rotate([0.06403017678452493, -0.03616582926434156, 96.26688212727105])
cube([3.3333526924252554,3.012598548084502,0.8539620880037552],center=true);
//gt label: engine
translate([1.5317558497190475,-3.245669398456812,6.315561607480049])
rotate([-98.99188665652265, -87.27987052351041, -170.13743604175312])
cube([4.055972397327425,3.1934785470366487,1.0127947945147766],center=true);
//gt label: engine
translate([1.5379204042255878,-3.227167949080467,-6.3172900676727295])
rotate([97.1262167923495, 87.25562385375517, -171.83780961415437])
cube([4.067838452756413,3.185176160186539,1.0079878475517063],center=true);
//gt label: wing
translate([-1.2449732422828674,-1.9946955144405367,-5.819782018661499])
rotate([-164.40473879540548, 89.09340782190257, 107.06671287748098])
cube([3.559908829629422,1.6676128003746284,0.3743273438885852],center=true);
//gt label: wing
translate([-0.44552055187523365,-2.1844007819890976,9.866967871785164])
rotate([89.09857333755045, -3.7221445943485123, -0.5785436378204852])
cube([4.114125370979309,3.3347850851714647,0.3903822670690801],center=true);
//gt label: body
translate([-18.74084234237671,-0.7481788797304034,-0.018264323298353674])
rotate([-90.3367547922255, 0.43941194456662264, -99.63211956933394])
cube([3.973097689449797,3.7492879107594534,2.205704525113123],center=true);
//gt label: tail

```

```

translate([-15.94958320260048,2.9519770480692387,-4.418304860591888])
rotate([30.725227974659525, 79.88779494462318, 121.69880396065606])
cube([2.6238515414297883,1.9309438951313895,0.2226733253337557],center=true);
//gt label: body
translate([-0.6478673359379171,-2.020597625523805,-0.02491513849236071])
rotate([89.93857628703189, 0.0425459403879334, -0.3141172142512432])
cube([13.400581404566768,6.837305389344693,6.3146010786294955],center=true);
//gt label: wing
translate([-1.2532225623726845,-2.019860427826643,5.814606472849846])
rotate([-27.956041599082944, -88.98093705785995, 119.3737218433035])
cube([3.563234210014345,1.6704856790602218,0.3831672878004618],center=true);
//gt label: body
translate([-12.366350814700127,-1.2520739436149593,-0.11220551561564213])
rotate([-103.72396532612704, 1.6194972180467142, -11.276210438047501])
cube([8.875710293650632,6.459756493568821,6.458946354687616],center=true);
//gt label: tail
translate([-15.861476808786392,2.865815069526434,4.376514069736004])
rotate([-133.09915450770217, 78.93165406355163, -41.339716660841084])
cube([2.700395323336145,1.9595001637935963,0.22765314904973308],center=true);
//gt label: wing
translate([-1.25363377854228,-1.992645375430584,14.331333041191101])
rotate([-65.03958423942369, -83.22311657857922, 154.3610847499535])
cube([4.595642089843752,3.310050237923865,0.38159024203196207],center=true);

//gt label: wing
translate([-1.266733380034566,-1.9144604168832302,-14.349747002124786])
rotate([66.30480939509344, 82.91899031387888, 155.6666353114684])
cube([4.616140201687818,3.2956336997449456,0.3755966690369005],center=true);
//gt label: body
translate([11.498518735170364,-2.830627914518118,-0.0202592762070708])
rotate([90.36767205214585, 0.4214890946225669, -2.104899036616709])
cube([10.211443677544596,6.481690071523192,5.458570308983333],center=true);
//gt label: tail
translate([17.7198526263237,-2.0364367216825485,-0.012089737938367737])
rotate([-58.44085635399219, -89.6686644536583, -120.91141326043417])
cube([1.8085639551281938,0.9368238877505299,0.4937154147774409],center=true);
//gt label: wing
translate([-0.45887780375778675,-2.1787054277956486,-9.841369614005089])
rotate([-88.88397617834991, 3.8253918632044974, -0.9102185858638672])
cube([4.128761962056161,3.3460956811904916,0.3965248214080952],center=true);

```

Chair^{Cube} Question:

The following code describes a model airplane.

The airplane is consist of four parts, namely wing, body, tail, and engine.

Please annotate the following code to classify every code block. Block is defined with the 'code' sentence.

Here are an annotation example, please comment the given code following the structure of example.

Notice 1, all annotation should start with '//gt label:'.add()

Notice 2, The given example is a chair, with its own parts; the test code is an airplane. You should only learn the labelling structure and format from the example.

Please think step by step

Example:

```

$vpf=10;
//gt label: back
color ([1.0 ,0.0 ,1.0])
translate ([-10.102699026465416 ,10.26402935385704 , -3.6753161251544957])
rotate ([160.473313961177, -89.20091550633077, 25.857542120103997])
cube ([5.998089201748401 ,5.496873855590852 ,2.7275216579437362], center=true);
//gt label: leg
color ([1.0 ,0.5 ,0.0])
translate ([3.732927367091179, -2.904376983642578, -11.460498347878456])
rotate ([83.29877169048444, -2.9336897478076938, 1.7717028406932804])
cube ([8.382892608642582,6.155845820903782 ,1.735029611736539], center=true);
//gt label: back
color ([1.0 ,0.0 ,1.0])
translate ([-8.782793059945107,3.62139455974102,15.663894712924957])
rotate ([-87.40114929902032, -7.852857001920019, -78.83163723758284])
cube ([6.794895827770238,3.729214332997853,3.4905253723264247], center=true);
//gt label: back
color ([1.0 ,0.0 ,1.0])
translate ([-8.779593482613564,3.617325834929943, -15.588458776473999])
rotate ([-93.00015151574158, 7.7665248868069465, -78.69589319770452])
cube ([6.850444637238985,3.7134024873376843,3.50097727030526], center=true);
//gt label: seat
color ([0.0 ,0.5 ,1.0])
translate ([-4.543414153158665, -0.27427916182205075,0.037627230340149254])
rotate ([178.94347486588424, -89.70424105439432, -85.27071527446944])
cube ([18.423856347799305,2.1212632209062714,1.9406176172197025], center=true);
//gt label: arm
color ([0.5 ,0.75 ,0.5])
translate ([2.0733951590955257,5.066008232533932,17.023869156837463])
rotate ([91.7214319118549, 0.3406500603276716, -2.6203325374871493])
cube ([10.25913737714291,3.2277557812631787,2.7297904156149206], center=true);
//gt label: leg
color ([1.0 ,0.5 ,0.0])
translate ([11.340873166918755, -3.8123963773250584, -7.010739445686339])
rotate ([-72.88008516677385, 87.58217744158522, 108.78816565725081])
cube ([10.556101426482204,5.8197381719946915,1.9262613169848932], center=true);
//gt label: seat
color ([0.0 ,0.5 ,1.0])
translate ([3.5820095986127862,0.09064220765139909,6.1641668528318405])
rotate ([89.2104703042929, 1.2608381063033902, 1.192188387930374])
cube ([10.568408817052845,5.991361811757091,1.3266931846737864], center=true);
//gt label: leg
color ([1.0 ,0.5 ,0.0])
translate ([-2.5054448470473294,0.16689690761268183, -15.275467336177828])
rotate ([-3.2440951788482777, 4.097956676977613, 2.330700434600856])
cube ([5.861916616559032,4.245237149298208,3.870627619326138], center=true);
//gt label: back
color ([1.0 ,0.0 ,1.0])
translate ([-10.208072811365128,9.639107808470726,11.658100113272667])
rotate ([55.425968601985545, -86.39767308708605, 130.754210961323])
cube ([6.383902989327948,4.814630374312455,2.755037285387574], center=true);
//gt label: leg
color ([1.0 ,0.5 ,0.0])
translate ([9.006593003869057, -9.398162588477135, -17.004275023937225])
rotate ([175.41442227635292, 4.080280343132463, 86.05785075879909])
cube ([5.964655913412629,5.68107657134539,2.5408555381000175], center=true);
//gt label: arm

```

```

color ([0.5 ,0.75 ,0.5])
translate ([2.109469901770353,5.1393235474824905,-17.009077668190002])
rotate ([88.16578558433484, -0.3444949108333195, -2.480246085453709])
cube ([10.31251966953278,3.205398693680834,2.780237849801861],center=true);
//gt label: back
color ([1.0 ,0.0 ,1.0])
translate ([-10.107187777757645,10.257183536887169,3.705678097903729])
rotate ([156.88074195153723, -89.39487017508205, -150.53967334737442])
cube ([6.004906333982966,5.507151186466243,2.736380118876707],center=true);
//gt label: leg
color ([1.0 ,0.5 ,0.0])
translate ([-7.875424399971962,-9.505232870578766,-16.675046384334564])
rotate ([171.01609985432586, 0.45115233702222046, 91.66160109022213])
cube ([6.27911273390072,6.107992306351841,2.095006648451098],center=true);
//gt label: seat
color ([0.0 ,0.5 ,1.0])
translate ([-2.510064523667097,0.1777876692358403,15.309423506259918])
rotate ([-176.74110055873243, -4.028426752912393, 2.2137697851629663])
cube ([5.870751515030861,4.2288897186518,3.894701898098023],center=true);
//gt label: leg
color ([1.0 ,0.5 ,0.0])
translate ([-9.073779210448265,-3.024441655725241,11.831634566187859])
rotate ([-75.36801761901683, -84.78445282937601, -102.87252122632346])
cube ([6.788535602390773,5.643370486795908,2.1411868184805107],center=true);
//gt label: leg
color ([1.0 ,0.5 ,0.0])
translate ([-2.1943599171936516,-4.719993695616722,-16.6744726896286])
rotate ([-179.46182458895439, -5.0304710846126115, -91.58291220300536])
cube ([7.197215631604195,4.997781999409202,1.748268026858577],center=true);
//gt label: seat
color ([0.0 ,0.5 ,1.0])
translate ([3.7228381261229515,-2.911844030022621,11.474919393658638])
rotate ([-83.5367976237254, 2.8502622902619175, 1.7116861906056593])
cube ([8.384009674191478,6.149354055523876,1.7255898751318508],center=true);
//gt label: seat
color ([0.0 ,0.5 ,1.0])
translate ([11.328131407499313,-3.83534662425518,6.951077654957772])
rotate ([-118.37347329569543, -87.84206385000935, 120.01609941712393])
cube ([10.536476969718937,5.810016915202144,1.9013191200792843],center=true);
//gt label: arm
color ([0.5 ,0.75 ,0.5])
translate ([9.712061285972595,-0.19002289976924655,-16.23546838760376])
rotate ([-179.51433457792652, -1.4935766439435625, -86.39202382403056])
cube ([8.155665248632433,3.740893118083513,3.364970646798648],center=true);
//gt label: leg
color ([1.0 ,0.5 ,0.0])
translate ([-7.134627178311349,-7.975289896130563,0.007407343073282392])
rotate ([-113.26328268993919, 89.92967318796993, -19.235843135470493])
cube ([22.746100127696995,2.2620815038681084,1.6734210494905777],center=true);
//gt label: back
color ([1.0 ,0.0 ,1.0])
translate ([-9.64383751153946,3.242398928850889,5.937490239739418])
rotate ([124.50903327404203, -87.33166129176344, 61.70988229728158])
cube ([8.593223839998249,5.110086016356947,2.243097536265852],center=true);
//gt label: back
color ([1.0 ,0.0 ,1.0])
translate ([-9.075806811451912,-3.030961900949478,-11.81210845708847])
rotate ([74.63199509127305, 84.70028261516227, -103.73367047430244])

```

```

cube([6.784284934401518,5.653989166021347,2.131040208041679],center=true);
//gt label: leg
color([1.0,0.5,0.0])
translate([9.148417711257935,-9.382099136710167,17.11809605360031])
rotate([-4.968020709148986, 3.798101773971535, -93.9014263833732])
cube([5.967696905136167,5.6704226508737205,2.5351978838443894],center=true);
//gt label: back
color([1.0,0.0,1.0])
translate([-9.64007817208767,3.267190121114254,-5.934619307518005])
rotate([-58.06189424141626, -87.37441147770456, -115.7498893731446])
cube([8.575739264488224,5.12268476188183,2.242436353117237],center=true);
//gt label: seat
color([0.0,0.5,1.0])
translate([3.579420596361161,0.09449605946429077,-6.181386709213257])
rotate([90.82251773382816, -1.341258449319268, 0.9928294024460265])
cube([10.57185344398022,6.003924496471884,1.319888755679131],center=true);
//gt label: back
color([1.0,0.0,1.0])
translate([-10.203434079885483,9.612127766013145,-11.622404009103775])
rotate([-125.06479259978943, -86.46166676448571, -49.00506406620182])
cube([6.388581469655048,4.844061732292194,2.758722249418512],center=true);
//gt label: leg
color([1.0,0.5,0.0])
translate([-2.1866322495043278,-4.720134250819683,16.752963960170746])
rotate([179.56690297683338, 4.785847731480057, -91.46430147580763])
cube([7.22234591841698,5.02015568315983,1.7432807758450592],center=true);
//gt label: arm
color([0.5,0.75,0.5])
translate([9.716272205114365,-0.23163912352174487,16.260819137096405])
rotate([179.22343103198583, 1.4586201209913403, -86.23844599643725])
cube([8.151660040020946,3.734822198748885,3.39377565309438],center=true);
//gt label: leg
color([1.0,0.5,0.0])
translate([-9.298951923847198,-3.240146152675152,-0.011123452932224609])
rotate([49.92089385170738, -89.9031598881691, -46.89887658552939])
cube([11.788705810904505,4.511452391743662,1.8045132607221623],center=true);
//gt label: leg
color([1.0,0.5,0.0])
translate([-7.960064038634299,-9.485773965716362,16.787424981594086])
rotate([170.8429596305874, 0.6666024546997006, -89.0254424330423])
cube([6.344076693058118,6.037443019449822,2.0827306061983224],center=true);
//gt label: seat
color([0.0,0.5,1.0])
translate([3.399093803018332,-3.88543713837862,-0.09961893549188955])
rotate([90.40023292275849, 0.0219841897348893, -0.764818915969135])
cube([11.326858624815944,6.033792272210123,1.496833413839341],center=true);

```

Task:

```

$vpf=10;
//gt label: ***
translate([9.9213844537735,-3.030048292130232,0.015458189445780597])
rotate([179.99111833310496, -0.3136541546803373, -0.3479469329746344])
cube([14.514621943235401,3.5595400258898775,3.3572911284863993],center=true);
//gt label: ***
translate([-3.0432422459125523,-2.769499309360981,-14.141722023487093])
rotate([110.28041958843485, -70.41431045187099, -20.731363741013677])

```



```

cube([6.709006354212766,1.3475078530609612,0.29589290497824705],center=true);
//gt label: ***
translate([-15.074674189090729,-1.7249471321702003,0.004567506257444525])
rotate([-130.32339074715486, 0.9322074454637863, -10.272641000509907])
cube([2.6874679327011197,2.552479617297667,2.4472558125853663],center=true);
//gt label: ***
translate([-0.7638943241909145,-3.4050163812935352,8.457721248269081])
rotate([-110.78278713957445, 76.2917353364514, -19.769320414566955])
cube([4.614250287413598,2.5918871164321904,0.5365997087210455],center=true);
//gt label: ***
translate([0.16497560660354793,-3.9487890154123306,3.8413323089480405])
rotate([167.5062758456813, 83.53026105728806, -102.1632179658437])
cube([4.192828088998795,2.3708329163491735,0.8533036196604387],center=true);
//gt label: ***
translate([-18.23992818593979,-1.3331068865954876,3.3869865909218793])
rotate([-115.31114244967323, 72.19267551449406, -26.788785586062886])
cube([5.484133325517179,1.4128672517836138,0.12016741209665482],center=true);
//gt label: ***
translate([3.5951648280024533,-4.504960626363754,-3.9638251438736916])
rotate([-177.33952817471692, -83.04299989332627, 83.71547640244957])
cube([4.381989985704424,3.589124232530597,1.4678625483065875],center=true);
//gt label: ***
translate([-5.830232277512551,-2.8542086109519,0.006996251759119387])
rotate([179.99371823902078, 0.02610469870305648, -2.494284544592666])
cube([13.805754929780964,3.4458296373486608,3.3688312023878204],center=true);
//gt label: ***
translate([18.815257102251053,-3.3718490414321423,0.0193661564844661])
rotate([90.08739449602585, -0.09800786469819125, -90.05765042322027])
cube([1.7534650862217243,1.6840452607721097,1.1653851903975494],center=true);
//gt label: ***
translate([3.59521072357893,-4.506650976836681,3.962673246860504])
rotate([3.198273128481802, -82.95772282547932, -96.84383542482172])
cube([4.37215685844422,3.598536513745792,1.4704217389226009],center=true);
//gt label: ***
translate([-18.25397551059723,4.169581979513168,0.019402902398724102])
rotate([179.95081089499456, -0.15121620496685415, -83.39861676374602])
cube([2.8596763312816647,1.5816534589976101,0.14219020726159254],center=true);
//gt label: ***
translate([-0.7694108085706831,-3.401900604367256,-8.452712073922157])
rotate([110.30140899253772, -76.32257784064667, -19.43716380306151])
cube([4.622301273047927,2.590262126177552,0.5367324780672811],center=true);
//gt label: ***
translate([0.15211068210192036,-3.940819166600704,-3.8314110785722737])
rotate([-167.92164333392125, -83.47423338843586, -101.97831115012755])
cube([4.199914038181307,2.3692896775901326,0.8531630644574768],center=true);
//gt label: ***
translate([-16.979714334011078,0.22976583102717996,-0.0050979305524378946])
rotate([0.21886454615984383, 0.6345535921042724, 73.02517312896761])
cube([5.4412898048758525,2.15925000607968,0.457190065644682],center=true);
//gt label: ***
translate([-18.138041645288467,-1.3327325507998466,-3.4679336845874786])
rotate([112.54633972019874, -68.63369964883897, -22.8044706787177])
cube([5.48646703362465,1.4016167912632265,0.1192448392976122],center=true);
//gt label: ***
translate([-3.0519824847579002,-2.776682786643505,14.160122871398926])
rotate([-110.44930620797955, 70.48855763975978, -20.91218484869099])
cube([6.701969578862192,1.3487752061337308,0.2984280721284608],center=true);

```

Chair^{Cube} Answer:

```
$vpf=10;
//gt label: body
translate([9.9213844537735,-3.030048292130232,0.015458189445780597])
rotate([179.99111833310496,-0.3136541546803373,-0.3479469329746344])
cube([14.514621943235401,3.5595400258898775,3.3572911284863993],center=true);
//gt label: tail
translate([-3.0432422459125523,-2.769499309360981,-14.141722023487093])
rotate([110.28041958843485,-70.41431045187099,-20.731363741013677])
cube([6.709006354212766,1.3475078530609612,0.29589290497824705],center=true);
//gt label: engine
translate([-15.074674189090729,-1.7249471321702003,0.004567506257444525])
rotate([-130.32339074715486,0.9322074454637863,-10.272641000509907])
cube([2.6874679327011197,2.552479617297667,2.4472558125853663],center=true);
//gt label: wing
translate([-0.7638943241909145,-3.4050163812935352,8.457721248269081])
rotate([-110.78278713957445,76.2917353364514,-19.769320414566955])
cube([4.614250287413598,2.5918871164321904,0.5365997087210455],center=true);
//gt label: wing
translate([0.16497560660354793,-3.9487890154123306,3.8413323089480405])
rotate([167.5062758456813,83.53026105728806,-102.1632179658437])
cube([4.192828088998795,2.3708329163491735,0.8533036196604387],center=true);
//gt label: engine
translate([-18.23992818593979,-1.3331068865954876,3.3869865909218793])
rotate([-115.31114244967323,72.19267551449406,-26.788785586062886])
cube([5.484133325517179,1.4128672517836138,0.12016741209665482],center=true);
//gt label: body
translate([3.5951648280024533,-4.504960626363754,-3.9638251438736916])
rotate([-177.33952817471692,-83.04299989332627,83.71547640244957])
cube([4.381989985704424,3.589124232530597,1.4678625483065875],center=true);
//gt label: body
translate([-5.830232277512551,-2.8542086109519,0.006996251759119387])
rotate([179.99371823902078,0.02610469870305648,-2.494284544592666])
cube([13.805754929780964,3.4458296373486608,3.3688312023878204],center=true);
//gt label: engine
translate([18.815257102251053,-3.3718490414321423,0.0193661564844661])
rotate([90.08739449602585,-0.09800786469819125,-90.05765042322027])
cube([1.7534650862217243,1.6840452607721097,1.1653851903975494],center=true);
//gt label: body
translate([3.59521072357893,-4.506650976836681,3.962673246860504])
rotate([3.198273128481802,-82.95772282547932,-96.84383542482172])
cube([4.37215685844422,3.598536513745792,1.4704217389226009],center=true);
//gt label: engine
translate([-18.25397551059723,4.169581979513168,0.019402902398724102])
rotate([179.95081089499456,-0.15121620496685415,-83.39861676374602])
cube([2.8596763312816647,1.5816534589976101,0.14219020726159254],center=true);
//gt label: wing
translate([-0.7694108085706831,-3.401900604367256,-8.452712073922157])
rotate([110.30140899253772,-76.32257784064667,-19.43716380306151])
cube([4.622301273047927,2.590262126177552,0.5367324780672811],center=true);
//gt label: wing
translate([0.15211068210192036,-3.940819166600704,-3.8314110785722737])
rotate([-167.92164333392125,-83.47423338843586,-101.97831115012755])
cube([4.199914038181307,2.3692896775901326,0.8531630644574768],center=true);
//gt label: engine
translate([-16.979714334011078,0.22976583102717996,-0.0050979305524378946])
rotate([0.21886454615984383,0.6345535921042724,73.02517312896761])
```

```

cube([5.4412898048758525,2.15925000607968,0.457190065644682],center=true);
//gt label: engine
translate([-18.138041645288467,-1.3327325507998466,-3.4679336845874786])
rotate([112.54633972019874, -68.63369964883897, -22.8044706787177])
cube([5.48646703362465,1.4016167912632265,0.1192448392976122],center=true);
//gt label: tail
translate([-3.0519824847579002,-2.776682786643505,14.160122871398926])
rotate([-110.44930620797955, 70.48855763975978, -20.91218484869099])
cube([6.701969578862192,1.3487752061337308,0.2984280721284608],center=true);

```

Chair^{Cube} Question: 0

The following code describes a model airplane.

The airplane is consist of four parts, namely wing, body, tail, and engine.

Please annotate the following code to classify every code block. Block is defined with the 'code' sentence.

Here are an annotation example, please comment the given code following the structure of example.

Notice 1, all annotation should start with '//gt label:'.add()

Notice 2, The given example is a chair, with its own parts; the test code is an airplane. You should only learn the labelling structure and format from the example.

Please think step by step

Example:

```

$vpf=10;
//gt label: back
color([1.0,0.0,1.0])
translate([-10.102699026465416,10.26402935385704,-3.6753161251544957])
rotate([160.473313961177, -89.20091550633077, 25.857542120103997])
cube([5.998089201748401,5.496873855590852,2.7275216579437362],center=true);
//gt label: leg
color([1.0,0.5,0.0])
translate([3.732927367091179,-2.904376983642578,-11.460498347878456])
rotate([83.29877169048444, -2.9336897478076938, 1.7717028406932804])
cube([8.382892608642582,6.155845820903782,1.735029611736539],center=true);
//gt label: back
color([1.0,0.0,1.0])
translate([-8.782793059945107,3.62139455974102,15.663894712924957])
rotate([-87.40114929902032, -7.852857001920019, -78.83163723758284])
cube([6.794895827770238,3.729214332997853,3.4905253723264247],center=true);
//gt label: back
color([1.0,0.0,1.0])
translate([-8.779593482613564,3.617325834929943,-15.588458776473999])
rotate([-93.00015151574158, 7.7665248868069465, -78.69589319770452])
cube([6.850444637238985,3.7134024873376843,3.50097727030526],center=true);
//gt label: seat
color([0.0,0.5,1.0])
translate([-4.543414153158665,-0.27427916182205075,0.037627230340149254])
rotate([178.94347486588424, -89.70424105439432, -85.27071527446944])
cube([18.423856347799305,2.1212632209062714,1.9406176172197025],center=true);
//gt label: arm
color([0.5,0.75,0.5])
translate([2.0733951590955257,5.066008232533932,17.023869156837463])
rotate([91.7214319118549, 0.3406500603276716, -2.6203325374871493])

```

```

cube([10.25913737714291,3.2277557812631787,2.7297904156149206],center=true);
//gt label: leg
color([1.0,0.5,0.0])
translate([11.340873166918755,-3.8123963773250584,-7.010739445686339])
rotate([-72.88008516677385,87.58217744158522,108.78816565725081])
cube([10.556101426482204,5.8197381719946915,1.9262613169848932],center=true);
//gt label: seat
color([0.0,0.5,1.0])
translate([3.5820095986127862,0.09064220765139909,6.1641668528318405])
rotate([89.2104703042929,1.2608381063033902,1.192188387930374])
cube([10.568408817052845,5.991361811757091,1.3266931846737864],center=true);
//gt label: leg
color([1.0,0.5,0.0])
translate([-2.5054448470473294,0.16689690761268183,-15.275467336177828])
rotate([-3.2440951788482777,4.097956676977613,2.330700434600856])
cube([5.861916616559032,4.245237149298208,3.870627619326138],center=true);
//gt label: back
color([1.0,0.0,1.0])
translate([-10.208072811365128,9.639107808470726,11.658100113272667])
rotate([55.425968601985545,-86.39767308708605,130.754210961323])
cube([6.383902989327948,4.814630374312455,2.755037285387574],center=true);
//gt label: leg
color([1.0,0.5,0.0])
translate([9.006593003869057,-9.398162588477135,-17.004275023937225])
rotate([175.41442227635292,4.080280343132463,86.05785075879909])
cube([5.964655913412629,5.68107657134539,2.5408555381000175],center=true);
//gt label: arm
color([0.5,0.75,0.5])
translate([2.109469901770353,5.1393235474824905,-17.009077668190002])
rotate([88.16578558433484,-0.3444949108333195,-2.480246085453709])
cube([10.31251966953278,3.205398693680834,2.780237849801861],center=true);
//gt label: back
color([1.0,0.0,1.0])
translate([-10.107187777757645,10.257183536887169,3.705678097903729])
rotate([156.88074195153723,-89.39487017508205,-150.53967334737442])
cube([6.004906333982966,5.507151186466243,2.736380118876707],center=true);
//gt label: leg
color([1.0,0.5,0.0])
translate([-7.875424399971962,-9.505232870578766,-16.675046384334564])
rotate([171.01609985432586,0.45115233702222046,91.66160109022213])
cube([6.27911273390072,6.107992306351841,2.095006648451098],center=true);
//gt label: seat
color([0.0,0.5,1.0])
translate([-2.510064523667097,0.1777876692358403,15.309423506259918])
rotate([-176.74110055873243,-4.028426752912393,2.2137697851629663])
cube([5.870751515030861,4.2288897186518,3.894701898098023],center=true);
//gt label: leg
color([1.0,0.5,0.0])
translate([-9.073779210448265,-3.024441655725241,11.831634566187859])
rotate([-75.36801761901683,-84.78445282937601,-102.87252122632346])
cube([6.788535602390773,5.643370486795908,2.1411868184805107],center=true);
//gt label: leg
color([1.0,0.5,0.0])
translate([-2.1943599171936516,-4.719993695616722,-16.6744726896286])
rotate([-179.46182458895439,-5.0304710846126115,-91.58291220300536])
cube([7.197215631604195,4.997781999409202,1.748268026858577],center=true);
//gt label: seat
color([0.0,0.5,1.0])

```

```

translate ([3.7228381261229515, -2.911844030022621, 11.474919393658638])
rotate ([-83.5367976237254, 2.8502622902619175, 1.7116861906056593])
cube ([8.384009674191478, 6.149354055523876, 1.7255898751318508], center=true);
//gt label: seat
color ([0.0, 0.5, 1.0])
translate ([11.328131407499313, -3.83534662425518, 6.951077654957772])
rotate ([-118.37347329569543, -87.84206385000935, 120.01609941712393])
cube ([10.536476969718937, 5.810016915202144, 1.9013191200792843], center=true);
//gt label: arm
color ([0.5, 0.75, 0.5])
translate ([9.712061285972595, -0.19002289976924655, -16.23546838760376])
rotate ([-179.51433457792652, -1.4935766439435625, -86.39202382403056])
cube ([8.155665248632433, 3.740893118083513, 3.364970646798648], center=true);
//gt label: leg
color ([1.0, 0.5, 0.0])
translate ([-7.134627178311349, -7.975289896130563, 0.007407343073282392])
rotate ([-113.26328268993919, 89.92967318796993, -19.235843135470493])
cube ([22.746100127696995, 2.2620815038681084, 1.6734210494905777], center=true);
//gt label: back
color ([1.0, 0.0, 1.0])
translate ([-9.64383751153946, 3.242398928850889, 5.937490239739418])
rotate ([124.50903327404203, -87.33166129176344, 61.70988229728158])
cube ([8.593223839998249, 5.110086016356947, 2.243097536265852], center=true);
//gt label: back
color ([1.0, 0.0, 1.0])
translate ([-9.075806811451912, -3.030961900949478, -11.81210845708847])
rotate ([74.63199509127305, 84.70028261516227, -103.73367047430244])
cube ([6.784284934401518, 5.653989166021347, 2.131040208041679], center=true);
//gt label: leg
color ([1.0, 0.5, 0.0])
translate ([9.148417711257935, -9.382099136710167, 17.11809605360031])
rotate ([-4.968020709148986, 3.798101773971535, -93.9014263833732])
cube ([5.967696905136167, 5.6704226508737205, 2.5351978838443894], center=true);
//gt label: back
color ([1.0, 0.0, 1.0])
translate ([-9.64007817208767, 3.267190121114254, -5.934619307518005])
rotate ([-58.06189424141626, -87.37441147770456, -115.7498893731446])
cube ([8.575739264488224, 5.12268476188183, 2.242436353117237], center=true);
//gt label: seat
color ([0.0, 0.5, 1.0])
translate ([3.579420596361161, 0.09449605946429077, -6.181386709213257])
rotate ([90.82251773382816, -1.341258449319268, 0.9928294024460265])
cube ([10.57185344398022, 6.003924496471884, 1.319888755679131], center=true);
//gt label: back
color ([1.0, 0.0, 1.0])
translate ([-10.203434079885483, 9.612127766013145, -11.622404009103775])
rotate ([-125.06479259978943, -86.46166676448571, -49.00506406620182])
cube ([6.388581469655048, 4.844061732292194, 2.758722249418512], center=true);
//gt label: leg
color ([1.0, 0.5, 0.0])
translate ([-2.1866322495043278, -4.720134250819683, 16.752963960170746])
rotate ([179.56690297683338, 4.785847731480057, -91.46430147580763])
cube ([7.22234591841698, 5.02015568315983, 1.7432807758450592], center=true);
//gt label: arm
color ([0.5, 0.75, 0.5])
translate ([9.716272205114365, -0.23163912352174487, 16.260819137096405])
rotate ([179.22343103198583, 1.4586201209913403, -86.23844599643725])
cube ([8.151660040020946, 3.734822198748885, 3.39377565309438], center=true);

```

```

//gt label: leg
color ([1.0 ,0.5 ,0.0])
translate ([-9.298951923847198, -3.240146152675152, -0.011123452932224609])
rotate ([49.92089385170738, -89.9031598881691, -46.89887658552939])
cube ([11.788705810904505, 4.511452391743662, 1.8045132607221623], center=true);
//gt label: leg
color ([1.0 ,0.5 ,0.0])
translate ([-7.960064038634299, -9.485773965716362, 16.787424981594086])
rotate ([170.8429596305874, 0.6666024546997006, -89.0254424330423])
cube ([6.344076693058118, 6.037443019449822, 2.0827306061983224], center=true);
//gt label: seat
color ([0.0 ,0.5 ,1.0])
translate ([3.399093803018332, -3.88543713837862, -0.09961893549188955])
rotate ([90.40023292275849, 0.0219841897348893, -0.764818915969135])
cube ([11.326858624815944, 6.033792272210123, 1.496833413839341], center=true);

```

Task:

```

//gt label: ***
translate ([-5.830232277512551, -2.8542086109519, 0.006996251759119387])
rotate ([179.99371823902078, 0.02610469870305648, -2.494284544592666])
cube ([13.805754929780964, 3.4458296373486608, 3.3688312023878204], center=true);
//gt label: ***
translate ([-15.074674189090729, -1.7249471321702003, 0.004567506257444525])
rotate ([-130.32339074715486, 0.9322074454637863, -10.272641000509907])
cube ([2.6874679327011197, 2.552479617297667, 2.4472558125853663], center=true);
//gt label: ***
translate ([-18.138041645288467, -1.3327325507998466, -3.4679336845874786])
rotate ([112.54633972019874, -68.63369964883897, -22.8044706787177])
cube ([5.48646703362465, 1.4016167912632265, 0.1192448392976122], center=true);
//gt label: ***
translate ([-0.7694108085706831, -3.401900604367256, -8.452712073922157])
rotate ([110.30140899253772, -76.32257784064667, -19.43716380306151])
cube ([4.622301273047927, 2.590262126177552, 0.5367324780672811], center=true);
//gt label: ***
translate ([9.9213844537735, -3.030048292130232, 0.015458189445780597])
rotate ([179.99111833310496, -0.3136541546803373, -0.3479469329746344])
cube ([14.514621943235401, 3.5595400258898775, 3.3572911284863993], center=true);
//gt label: ***
translate ([-3.0519824847579002, -2.776682786643505, 14.160122871398926])
rotate ([-110.44930620797955, 70.48855763975978, -20.91218484869099])
cube ([6.701969578862192, 1.3487752061337308, 0.2984280721284608], center=true);

//gt label: ***
translate ([0.16497560660354793, -3.9487890154123306, 3.8413323089480405])
rotate ([167.5062758456813, 83.53026105728806, -102.1632179658437])
cube ([4.192828088998795, 2.3708329163491735, 0.8533036196604387], center=true);
//gt label: ***
translate ([-18.23992818593979, -1.3331068865954876, 3.3869865909218793])
rotate ([-115.31114244967323, 72.19267551449406, -26.788785586062886])
cube ([5.484133325517179, 1.4128672517836138, 0.12016741209665482], center=true);
//gt label: ***
translate ([3.59521072357893, -4.506650976836681, 3.962673246860504])
rotate ([3.198273128481802, -82.95772282547932, -96.84383542482172])
cube ([4.37215685844422, 3.598536513745792, 1.4704217389226009], center=true);
//gt label: ***
translate ([3.5951648280024533, -4.504960626363754, -3.9638251438736916])

```

```

rotate([-177.33952817471692, -83.04299989332627, 83.71547640244957])
cube([4.381989985704424,3.589124232530597,1.4678625483065875],center=true);
//gt label: ***
translate([18.815257102251053,-3.3718490414321423,0.0193661564844661])
rotate([90.08739449602585, -0.09800786469819125, -90.05765042322027])
cube([1.7534650862217243,1.6840452607721097,1.1653851903975494],center=true);
//gt label: ***
translate([0.15211068210192036,-3.940819166600704,-3.8314110785722737])
rotate([-167.92164333392125, -83.47423338843586, -101.97831115012755])
cube([4.199914038181307,2.3692896775901326,0.8531630644574768],center=true);
//gt label: ***
translate([-18.25397551059723,4.169581979513168,0.019402902398724102])
rotate([179.95081089499456, -0.15121620496685415, -83.39861676374602])
cube([2.8596763312816647,1.5816534589976101,0.14219020726159254],center=true);
//gt label: ***
translate([-3.0432422459125523,-2.769499309360981,-14.141722023487093])
rotate([110.28041958843485, -70.41431045187099, -20.731363741013677])
cube([6.709006354212766,1.3475078530609612,0.29589290497824705],center=true);
//gt label: ***
translate([-0.7638943241909145,-3.4050163812935352,8.457721248269081])
rotate([-110.78278713957445, 76.2917353364514, -19.769320414566955])
cube([4.614250287413598,2.5918871164321904,0.5365997087210455],center=true);
//gt label: ***
translate([-16.979714334011078,0.22976583102717996,-0.0050979305524378946])
rotate([0.21886454615984383, 0.6345535921042724, 73.02517312896761])
cube([5.4412898048758525,2.15925000607968,0.457190065644682],center=true);

```

Chair^{Cube} Answer: 0

```

//gt label: body
translate([-5.830232277512551,-2.8542086109519,0.006996251759119387])
rotate([179.99371823902078, 0.02610469870305648, -2.494284544592666])
cube([13.805754929780964,3.4458296373486608,3.3688312023878204],center=true);

//gt label: tail
translate([-15.074674189090729,-1.7249471321702003,0.004567506257444525])
rotate([-130.32339074715486, 0.9322074454637863, -10.272641000509907])
cube([2.6874679327011197,2.552479617297667,2.4472558125853663],center=true);

//gt label: tail
translate([-18.138041645288467,-1.3327325507998466,-3.4679336845874786])
rotate([112.54633972019874, -68.63369964883897, -22.8044706787177])
cube([5.48646703362465,1.4016167912632265,0.1192448392976122],center=true);

//gt label: engine
translate([-0.7694108085706831,-3.401900604367256,-8.452712073922157])
rotate([110.30140899253772, -76.32257784064667, -19.43716380306151])
cube([4.622301273047927,2.590262126177552,0.5367324780672811],center=true);

//gt label: body
translate([9.9213844537735,-3.030048292130232,0.015458189445780597])
rotate([179.99111833310496, -0.3136541546803373, -0.3479469329746344])
cube([14.514621943235401,3.5595400258898775,3.3572911284863993],center=true);

//gt label: tail
translate([-3.0519824847579002,-2.776682786643505,14.160122871398926])
rotate([-110.44930620797955, 70.48855763975978, -20.91218484869099])

```

```

cube([6.701969578862192,1.3487752061337308,0.2984280721284608],center=true);

//gt label: wing
translate([0.16497560660354793,-3.9487890154123306,3.8413323089480405])
rotate([167.5062758456813,83.53026105728806,-102.1632179658437])
cube([4.192828088998795,2.3708329163491735,0.8533036196604387],center=true);

//gt label: tail
translate([-18.23992818593979,-1.3331068865954876,3.3869865909218793])
rotate([-115.31114244967323,72.19267551449406,-26.788785586062886])
cube([5.484133325517179,1.4128672517836138,0.12016741209665482],center=true);

//gt label: wing
translate([3.59521072357893,-4.506650976836681,3.962673246860504])
rotate([3.198273128481802,-82.95772282547932,-96.84383542482172])
cube([4.37215685844422,3.598536513745792,1.4704217389226009],center=true);

//gt label: wing
translate([3.5951648280024533,-4.504960626363754,-3.9638251438736916])
rotate([-177.33952817471692,-83.04299989332627,83.71547640244957])
cube([4.381989985704424,3.589124232530597,1.4678625483065875],center=true);

//gt label: engine
translate([18.815257102251053,-3.3718490414321423,0.0193661564844661])
rotate([90.08739449602585,-0.09800786469819125,-90.05765042322027])
cube([1.7534650862217243,1.6840452607721097,1.1653851903975494],center=true);

//gt label: wing
translate([0.15211068210192036,-3.940819166600704,-3.8314110785722737])
rotate([-167.92164333392125,-83.47423338843586,-101.97831115012755])
cube([4.199914038181307,2.3692896775901326,0.8531630644574768],center=true);

//gt label: tail
translate([-18.25397551059723,4.169581979513168,0.019402902398724102])
rotate([179.95081089499456,-0.15121620496685415,-83.39861676374602])
cube([2.8596763312816647,1.5816534589976101,0.14219020726159254],center=true);

//gt label: tail
translate([-3.0432422459125523,-2.769499309360981,-14.141722023487093])
rotate([110.28041958843485,-70.41431045187099,-20.731363741013677])
cube([6.709006354212766,1.3475078530609612,0.29589290497824705],center=true);

//gt label: engine
translate([-0.7638943241909145,-3.4050163812935352,8.457721248269081])
rotate([-110.78278713957445,76.2917353364514,-19.769320414566955])
cube([4.614250287413598,2.5918871164321904,0.5365997087210455],center=true);

//gt label: tail
translate([-16.979714334011078,0.22976583102717996,-0.0050979305524378946])
rotate([0.21886454615984383,0.6345535921042724,73.02517312896761])
cube([5.4412898048758525,2.15925000607968,0.457190065644682],center=true);

```

Chair^{Cube} Question: 1

The following code describes a model airplane.

The airplane is consist of four parts , namely wing , body , tail , and engine .
Please annotate the following code to classify every code block . Block is defined
with the 'code' sentence .

Here are an annotation example , please comment the given code following the structure
of example .

Notice 1 , all annotation should start with '//gt label:'.add()

Notice 2 , The given example is a chair , with its own parts ; the test code is an
airplane . You should only learn the labelling structure and format from the
example .

Please think step by step

Example :

```
$vpf=10;
//gt label: back
color ([1.0 ,0.0 ,1.0])
translate ([-10.102699026465416 ,10.26402935385704 , -3.6753161251544957])
rotate ([160.473313961177 , -89.20091550633077 , 25.857542120103997])
cube ([5.998089201748401 ,5.496873855590852 ,2.7275216579437362] ,center=true);
//gt label: leg
color ([1.0 ,0.5 ,0.0])
translate ([3.732927367091179 , -2.904376983642578 , -11.460498347878456])
rotate ([83.29877169048444 , -2.9336897478076938 , 1.7717028406932804])
cube ([8.382892608642582 ,6.155845820903782 ,1.735029611736539] ,center=true);
//gt label: back
color ([1.0 ,0.0 ,1.0])
translate ([-8.782793059945107 ,3.62139455974102 ,15.663894712924957])
rotate ([-87.40114929902032 , -7.852857001920019 , -78.83163723758284])
cube ([6.794895827770238 ,3.729214332997853 ,3.4905253723264247] ,center=true);
//gt label: back
color ([1.0 ,0.0 ,1.0])
translate ([-8.779593482613564 ,3.617325834929943 , -15.588458776473999])
rotate ([-93.00015151574158 , 7.7665248868069465 , -78.69589319770452])
cube ([6.850444637238985 ,3.7134024873376843 ,3.50097727030526] ,center=true);
//gt label: seat
color ([0.0 ,0.5 ,1.0])
translate ([-4.543414153158665 , -0.27427916182205075 ,0.037627230340149254])
rotate ([178.94347486588424 , -89.70424105439432 , -85.27071527446944])
cube ([18.423856347799305 ,2.1212632209062714 ,1.9406176172197025] ,center=true);
//gt label: arm
color ([0.5 ,0.75 ,0.5])
translate ([2.0733951590955257 ,5.066008232533932 ,17.023869156837463])
rotate ([91.7214319118549 , 0.3406500603276716 , -2.6203325374871493])
cube ([10.25913737714291 ,3.2277557812631787 ,2.7297904156149206] ,center=true);
//gt label: leg
color ([1.0 ,0.5 ,0.0])
translate ([11.340873166918755 , -3.8123963773250584 , -7.010739445686339])
rotate ([-72.88008516677385 , 87.58217744158522 , 108.78816565725081])
cube ([10.556101426482204 ,5.8197381719946915 ,1.9262613169848932] ,center=true);
//gt label: seat
color ([0.0 ,0.5 ,1.0])
translate ([3.5820095986127862 ,0.09064220765139909 ,6.1641668528318405])
rotate ([89.2104703042929 , 1.2608381063033902 , 1.192188387930374])
cube ([10.568408817052845 ,5.991361811757091 ,1.3266931846737864] ,center=true);
//gt label: leg
color ([1.0 ,0.5 ,0.0])
translate ([-2.5054448470473294 ,0.16689690761268183 , -15.275467336177828])
rotate ([-3.2440951788482777 , 4.097956676977613 , 2.330700434600856])
cube ([5.861916616559032 ,4.245237149298208 ,3.870627619326138] ,center=true);
```

```

//gt label: back
color ([1.0 ,0.0 ,1.0])
translate ([-10.208072811365128,9.639107808470726,11.658100113272667])
rotate ([55.425968601985545, -86.39767308708605, 130.754210961323])
cube ([6.383902989327948,4.814630374312455,2.755037285387574],center=true);
//gt label: leg
color ([1.0 ,0.5 ,0.0])
translate ([9.006593003869057,-9.398162588477135,-17.004275023937225])
rotate ([175.41442227635292, 4.080280343132463, 86.05785075879909])
cube ([5.964655913412629,5.68107657134539,2.5408555381000175],center=true);
//gt label: arm
color ([0.5 ,0.75 ,0.5])
translate ([2.109469901770353,5.1393235474824905,-17.009077668190002])
rotate ([88.16578558433484, -0.3444949108333195, -2.480246085453709])
cube ([10.31251966953278,3.205398693680834,2.780237849801861],center=true);
//gt label: back
color ([1.0 ,0.0 ,1.0])
translate ([-10.107187777757645,10.257183536887169,3.705678097903729])
rotate ([156.88074195153723, -89.39487017508205, -150.53967334737442])
cube ([6.004906333982966,5.507151186466243,2.736380118876707],center=true);
//gt label: leg
color ([1.0 ,0.5 ,0.0])
translate ([-7.875424399971962,-9.505232870578766,-16.675046384334564])
rotate ([171.01609985432586, 0.45115233702222046, 91.66160109022213])
cube ([6.27911273390072,6.107992306351841,2.095006648451098],center=true);
//gt label: seat
color ([0.0 ,0.5 ,1.0])
translate ([-2.510064523667097,0.1777876692358403,15.309423506259918])
rotate ([-176.74110055873243, -4.028426752912393, 2.2137697851629663])
cube ([5.870751515030861,4.2288897186518,3.894701898098023],center=true);
//gt label: leg
color ([1.0 ,0.5 ,0.0])
translate ([-9.073779210448265,-3.024441655725241,11.831634566187859])
rotate ([-75.36801761901683, -84.78445282937601, -102.87252122632346])
cube ([6.788535602390773,5.643370486795908,2.1411868184805107],center=true);
//gt label: leg
color ([1.0 ,0.5 ,0.0])
translate ([-2.1943599171936516,-4.719993695616722,-16.6744726896286])
rotate ([-179.46182458895439, -5.0304710846126115, -91.58291220300536])
cube ([7.197215631604195,4.997781999409202,1.748268026858577],center=true);
//gt label: seat
color ([0.0 ,0.5 ,1.0])
translate ([3.7228381261229515,-2.911844030022621,11.474919393658638])
rotate ([-83.5367976237254, 2.8502622902619175, 1.7116861906056593])
cube ([8.384009674191478,6.149354055523876,1.7255898751318508],center=true);
//gt label: seat
color ([0.0 ,0.5 ,1.0])
translate ([11.328131407499313,-3.83534662425518,6.951077654957772])
rotate ([-118.37347329569543, -87.84206385000935, 120.01609941712393])
cube ([10.536476969718937,5.810016915202144,1.9013191200792843],center=true);
//gt label: arm
color ([0.5 ,0.75 ,0.5])
translate ([9.712061285972595,-0.19002289976924655,-16.23546838760376])
rotate ([-179.51433457792652, -1.4935766439435625, -86.39202382403056])
cube ([8.155665248632433,3.740893118083513,3.364970646798648],center=true);
//gt label: leg
color ([1.0 ,0.5 ,0.0])
translate ([-7.134627178311349,-7.975289896130563,0.007407343073282392])

```

```

rotate([-113.26328268993919, 89.92967318796993, -19.235843135470493])
cube([22.746100127696995,2.2620815038681084,1.6734210494905777],center=true);
//gt label: back
color([1.0,0.0,1.0])
translate([-9.64383751153946,3.242398928850889,5.937490239739418])
rotate([124.50903327404203, -87.33166129176344, 61.70988229728158])
cube([8.593223839998249,5.110086016356947,2.243097536265852],center=true);
//gt label: back
color([1.0,0.0,1.0])
translate([-9.075806811451912,-3.030961900949478,-11.81210845708847])
rotate([74.63199509127305, 84.70028261516227, -103.73367047430244])
cube([6.784284934401518,5.653989166021347,2.131040208041679],center=true);
//gt label: leg
color([1.0,0.5,0.0])
translate([9.148417711257935,-9.382099136710167,17.11809605360031])
rotate([-4.968020709148986, 3.798101773971535, -93.9014263833732])
cube([5.967696905136167,5.6704226508737205,2.5351978838443894],center=true);
//gt label: back
color([1.0,0.0,1.0])
translate([-9.64007817208767,3.267190121114254,-5.934619307518005])
rotate([-58.06189424141626, -87.37441147770456, -115.7498893731446])
cube([8.575739264488224,5.12268476188183,2.242436353117237],center=true);
//gt label: seat
color([0.0,0.5,1.0])
translate([3.579420596361161,0.09449605946429077,-6.181386709213257])
rotate([90.82251773382816, -1.341258449319268, 0.9928294024460265])
cube([10.57185344398022,6.003924496471884,1.319888755679131],center=true);
//gt label: back
color([1.0,0.0,1.0])
translate([-10.203434079885483,9.612127766013145,-11.622404009103775])
rotate([-125.06479259978943, -86.46166676448571, -49.00506406620182])
cube([6.388581469655048,4.844061732292194,2.758722249418512],center=true);
//gt label: leg
color([1.0,0.5,0.0])
translate([-2.1866322495043278,-4.720134250819683,16.752963960170746])
rotate([179.56690297683338, 4.785847731480057, -91.46430147580763])
cube([7.22234591841698,5.02015568315983,1.7432807758450592],center=true);
//gt label: arm
color([0.5,0.75,0.5])
translate([9.716272205114365,-0.23163912352174487,16.260819137096405])
rotate([179.22343103198583, 1.4586201209913403, -86.23844599643725])
cube([8.151660040020946,3.734822198748885,3.39377565309438],center=true);
//gt label: leg
color([1.0,0.5,0.0])
translate([-9.298951923847198,-3.240146152675152,-0.011123452932224609])
rotate([49.92089385170738, -89.9031598881691, -46.89887658552939])
cube([11.788705810904505,4.511452391743662,1.8045132607221623],center=true);
//gt label: leg
color([1.0,0.5,0.0])
translate([-7.960064038634299,-9.485773965716362,16.787424981594086])
rotate([170.8429596305874, 0.6666024546997006, -89.0254424330423])
cube([6.344076693058118,6.037443019449822,2.0827306061983224],center=true);
//gt label: seat
color([0.0,0.5,1.0])
translate([3.399093803018332,-3.88543713837862,-0.09961893549188955])
rotate([90.40023292275849, 0.0219841897348893, -0.764818915969135])
cube([11.326858624815944,6.033792272210123,1.496833413839341],center=true);

```

Task:

```
//gt label: ***
translate([-1.2060251086950302, -2.3856407962739468, 8.632851392030716])
rotate([-116.06612268142278, 74.25147638894713, -24.488883650841263])
cube([4.538758210837845, 2.9628637246787597, 0.5826405528932886], center=true);
//gt label: ***
translate([-3.83928831666708, -1.6292880475521088, 13.84933277964592])
rotate([-109.57229119755522, 68.75098238431028, -19.78820746926253])
cube([6.254601627588276, 1.677151499316103, 0.32551002223044884], center=true);

//gt label: ***
translate([-17.15000495314598, 0.1767136692069471, -0.014859895018162206])
rotate([0.23945260788361308, 0.9662714921344305, 65.85160814176284])
cube([5.703376904129986, 2.284846119582665, 0.47554199583828477], center=true);
//gt label: ***
translate([-3.8126922398805623, -1.661948999390006, -13.838217854499819])
rotate([108.9185810407197, -68.89575497242774, -19.104765967933826])
cube([6.259281337261205, 1.6732768062502206, 0.32410754356534577], center=true);
//gt label: ***
translate([10.233398154377937, -2.542352061718702, 0.016752978699514757])
rotate([0.07293735511468132, -0.32311898947117834, 0.14980733420051667])
cube([14.565475881099708, 3.5536899790167817, 3.2618002593517312], center=true);
//gt label: ***
translate([-0.21375198848545557, -3.389348573982716, -4.030495434999466])
rotate([5.535275690634281, 80.51945456963035, 95.47307284299437])
cube([4.377156607806683, 2.46059462428093, 0.8274273760616797], center=true);
//gt label: ***
translate([-17.88649618625641, -1.6755205672234297, 3.5308007895946503])
rotate([-121.40486008933163, 72.67759078536278, -32.405874641961816])
cube([5.450109541416168, 1.647915402427319, 0.1307015737984354], center=true);
//gt label: ***
translate([-5.481415241956711, -2.4164217710494995, 0.005415466730482876])
rotate([-179.91672024987184, 0.10720704194893887, -1.7747561875698454])
cube([13.972000181674963, 3.3922076225281037, 3.3860469609499253], center=true);
//gt label: ***
translate([3.2858493365347385, -3.7494206801056866, -4.478634186089039])
rotate([-174.4424970819488, -84.32345993974258, 80.97624640896319])
cube([4.700984731316581, 3.9289867132902314, 1.4795199222862805], center=true);
//gt label: ***
translate([-14.985372871160505, -1.6932213027030232, 0.017578401166247384])
rotate([-129.11672595006985, 1.4365185575016923, -5.91875990135237])
cube([2.767746057361449, 2.6511936262250693, 2.5154695473611732], center=true);
//gt label: ***
translate([-17.7386337518692, -1.6821485850960014, -3.6005014181137085])
rotate([115.54155105838161, -68.46903206821945, -25.373668594153667])
cube([5.481317713856701, 1.6346948128193666, 0.12983383494430006], center=true);
//gt label: ***
translate([3.2827888801693916, -3.7463440373539925, 4.486278258264065])
rotate([5.763582958161343, -84.35247507826415, -99.1976935652948])
cube([4.696845114231117, 3.9415006339550103, 1.4838621765375144], center=true);
//gt label: ***
translate([-18.57037141919136, 3.960353471338749, 0.010860398542718032])
rotate([0.0583913655830972, 0.29460563774497545, 97.54395652116982])
cube([2.8469880484044787, 1.7371205240488408, 0.16724910237826446], center=true);
//gt label: ***
translate([19.155228585004807, -2.840406745672226, 0.014593831292586401])
```

```

rotate([45.898682719080014, 89.84470967418689, -134.61131681147813])
cube([1.651420677080801,1.6406363435090274,1.2112336419523233],center=true);
//gt label: ***
translate([-0.22363933501765132, -3.3783567883074284,4.0274179726839066])
rotate([-5.691028493805405, -80.30438112928186, 95.55512198454505])
cube([4.3613525480031985,2.4688906595110898,0.8301708148792393],center=true);
//gt label: ***
translate([-1.2090794183313844, -2.39425728097558, -8.642287850379944])
rotate([115.2356276748709, -74.36285237906799, -23.796308287756684])
cube([4.549195356667054,2.962181642651576,0.5826913658529642],center=true);

```

Chair^{Cube} Answer: 1

```

//gt label: wing
translate([-1.2060251086950302, -2.3856407962739468,8.632851392030716])
rotate([-116.06612268142278, 74.25147638894713, -24.488883650841263])
cube([4.538758210837845,2.9628637246787597,0.5826405528932886],center=true);
//gt label: wing
translate([-3.83928831666708, -1.6292880475521088,13.84933277964592])
rotate([-109.57229119755522, 68.75098238431028, -19.78820746926253])
cube([6.254601627588276,1.677151499316103,0.32551002223044884],center=true);
//gt label: engine
translate([-17.15000495314598,0.1767136692069471, -0.014859895018162206])
rotate([0.23945260788361308, 0.9662714921344305, 65.85160814176284])
cube([5.703376904129986,2.284846119582665,0.47554199583828477],center=true);
//gt label: wing
translate([-3.8126922398805623, -1.661948999390006, -13.838217854499819])
rotate([108.9185810407197, -68.89575497242774, -19.104765967933826])
cube([6.259281337261205,1.6732768062502206,0.32410754356534577],center=true);
//gt label: body
translate([10.233398154377937, -2.542352061718702,0.016752978699514757])
rotate([0.07293735511468132, -0.32311898947117834, 0.14980733420051667])
cube([14.565475881099708,3.5536899790167817,3.2618002593517312],center=true);
//gt label: tail
translate([-0.21375198848545557, -3.389348573982716, -4.030495434999466])
rotate([5.535275690634281, 80.51945456963035, 95.47307284299437])
cube([4.377156607806683,2.46059462428093,0.8274273760616797],center=true);
//gt label: engine
translate([-17.88649618625641, -1.6755205672234297,3.5308007895946503])
rotate([-121.40486008933163, 72.67759078536278, -32.405874641961816])
cube([5.450109541416168,1.647915402427319,0.1307015737984354],center=true);
//gt label: body
translate([-5.481415241956711, -2.4164217710494995,0.005415466730482876])
rotate([-179.91672024987184, 0.10720704194893887, -1.7747561875698454])
cube([13.972000181674963,3.3922076225281037,3.3860469609499253],center=true);
//gt label: tail
translate([3.2858493365347385, -3.7494206801056866, -4.478634186089039])
rotate([-174.4424970819488, -84.32345993974258, 80.97624640896319])
cube([4.700984731316581,3.9289867132902314,1.4795199222862805],center=true);
//gt label: body
translate([-14.985372871160505, -1.6932213027030232,0.017578401166247384])
rotate([-129.11672595006985, 1.4365185575016923, -5.91875990135237])
cube([2.767746057361449,2.6511936262250693,2.5154695473611732],center=true);
//gt label: engine
translate([-17.7386337518692, -1.6821485850960014, -3.6005014181137085])
rotate([115.54155105838161, -68.46903206821945, -25.373668594153667])
cube([5.481317713856701,1.6346948128193666,0.12983383494430006],center=true);

```

```

//gt label: tail
translate([3.2827888801693916,-3.7463440373539925,4.486278258264065])
rotate([5.763582958161343,-84.35247507826415,-99.1976935652948])
cube([4.696845114231117,3.9415006339550103,1.4838621765375144],center=true);
//gt label: engine
translate([-18.57037141919136,3.960353471338749,0.010860398542718032])
rotate([0.0583913655830972,0.29460563774497545,97.54395652116982])
cube([2.8469880484044787,1.7371205240488408,0.16724910237826446],center=true);
//gt label: engine
translate([19.155228585004807,-2.840406745672226,0.014593831292586401])
rotate([45.898682719080014,89.84470967418689,-134.61131681147813])
cube([1.651420677080801,1.6406363435090274,1.2112336419523233],center=true);
//gt label: tail
translate([-0.22363933501765132,-3.3783567883074284,4.0274179726839066])
rotate([-5.691028493805405,-80.30438112928186,95.55512198454505])
cube([4.3613525480031985,2.4688906595110898,0.8301708148792393],center=true);
//gt label: wing
translate([-1.2090794183313844,-2.39425728097558,-8.642287850379944])
rotate([115.2356276748709,-74.36285237906799,-23.796308287756684])
cube([4.549195356667054,2.962181642651576,0.5826913658529642],center=true);

```

Chair^{Cube} Question: 2

The following code describes a model airplane.

The airplane is consist of four parts, namely wing, body, tail, and engine.

Please annotate the following code to classify every code block. Block is defined with the 'code' sentence.

Here are an annotation example, please comment the given code following the structure of example.

Notice 1, all annotation should start with '//gt label:'.add()

Notice 2, The given example is a chair, with its own parts; the test code is an airplane. You should only learn the labelling structure and format from the example.

Please think step by step

Example:

```

$vpf=10;
//gt label: back
color([1.0,0.0,1.0])
translate([-10.102699026465416,10.26402935385704,-3.6753161251544957])
rotate([160.473313961177,-89.20091550633077,25.857542120103997])
cube([5.998089201748401,5.496873855590852,2.7275216579437362],center=true);
//gt label: leg
color([1.0,0.5,0.0])
translate([3.732927367091179,-2.904376983642578,-11.460498347878456])
rotate([83.29877169048444,-2.9336897478076938,1.7717028406932804])
cube([8.382892608642582,6.155845820903782,1.735029611736539],center=true);
//gt label: back
color([1.0,0.0,1.0])
translate([-8.782793059945107,3.62139455974102,15.663894712924957])
rotate([-87.40114929902032,-7.852857001920019,-78.83163723758284])
cube([6.794895827770238,3.729214332997853,3.4905253723264247],center=true);
//gt label: back
color([1.0,0.0,1.0])
translate([-8.779593482613564,3.617325834929943,-15.588458776473999])

```

```

rotate([-93.00015151574158, 7.7665248868069465, -78.69589319770452])
cube([6.850444637238985,3.7134024873376843,3.50097727030526],center=true);
//gt label: seat
color([0.0,0.5,1.0])
translate([-4.543414153158665,-0.27427916182205075,0.037627230340149254])
rotate([178.94347486588424, -89.70424105439432, -85.27071527446944])
cube([18.423856347799305,2.1212632209062714,1.9406176172197025],center=true);
//gt label: arm
color([0.5,0.75,0.5])
translate([2.0733951590955257,5.066008232533932,17.023869156837463])
rotate([91.7214319118549, 0.3406500603276716, -2.6203325374871493])
cube([10.25913737714291,3.2277557812631787,2.7297904156149206],center=true);
//gt label: leg
color([1.0,0.5,0.0])
translate([11.340873166918755,-3.8123963773250584,-7.010739445686339])
rotate([-72.88008516677385, 87.58217744158522, 108.78816565725081])
cube([10.556101426482204,5.8197381719946915,1.9262613169848932],center=true);
//gt label: seat
color([0.0,0.5,1.0])
translate([3.5820095986127862,0.09064220765139909,6.1641668528318405])
rotate([89.2104703042929, 1.2608381063033902, 1.192188387930374])
cube([10.568408817052845,5.991361811757091,1.3266931846737864],center=true);
//gt label: leg
color([1.0,0.5,0.0])
translate([-2.5054448470473294,0.16689690761268183,-15.275467336177828])
rotate([-3.2440951788482777, 4.097956676977613, 2.330700434600856])
cube([5.861916616559032,4.245237149298208,3.870627619326138],center=true);
//gt label: back
color([1.0,0.0,1.0])
translate([-10.208072811365128,9.639107808470726,11.658100113272667])
rotate([55.425968601985545, -86.39767308708605, 130.754210961323])
cube([6.383902989327948,4.814630374312455,2.755037285387574],center=true);
//gt label: leg
color([1.0,0.5,0.0])
translate([9.006593003869057,-9.398162588477135,-17.004275023937225])
rotate([175.41442227635292, 4.080280343132463, 86.05785075879909])
cube([5.964655913412629,5.68107657134539,2.5408555381000175],center=true);
//gt label: arm
color([0.5,0.75,0.5])
translate([2.109469901770353,5.1393235474824905,-17.009077668190002])
rotate([88.16578558433484, -0.3444949108333195, -2.480246085453709])
cube([10.31251966953278,3.205398693680834,2.780237849801861],center=true);
//gt label: back
color([1.0,0.0,1.0])
translate([-10.107187777757645,10.257183536887169,3.705678097903729])
rotate([156.88074195153723, -89.39487017508205, -150.53967334737442])
cube([6.004906333982966,5.507151186466243,2.736380118876707],center=true);
//gt label: leg
color([1.0,0.5,0.0])
translate([-7.875424399971962,-9.505232870578766,-16.675046384334564])
rotate([171.01609985432586, 0.45115233702222046, 91.66160109022213])
cube([6.27911273390072,6.107992306351841,2.095006648451098],center=true);
//gt label: seat
color([0.0,0.5,1.0])
translate([-2.510064523667097,0.1777876692358403,15.309423506259918])
rotate([-176.74110055873243, -4.028426752912393, 2.2137697851629663])
cube([5.870751515030861,4.2288897186518,3.894701898098023],center=true);
//gt label: leg

```

```

color ([1.0 ,0.5 ,0.0])
translate ([-9.073779210448265 , -3.024441655725241 , 11.831634566187859])
rotate ([-75.36801761901683 , -84.78445282937601 , -102.87252122632346])
cube ([6.788535602390773 , 5.643370486795908 , 2.1411868184805107] , center=true);
//gt label: leg
color ([1.0 ,0.5 ,0.0])
translate ([-2.1943599171936516 , -4.719993695616722 , -16.6744726896286])
rotate ([-179.46182458895439 , -5.0304710846126115 , -91.58291220300536])
cube ([7.197215631604195 , 4.997781999409202 , 1.748268026858577] , center=true);
//gt label: seat
color ([0.0 ,0.5 ,1.0])
translate ([3.7228381261229515 , -2.911844030022621 , 11.474919393658638])
rotate ([-83.5367976237254 , 2.8502622902619175 , 1.7116861906056593])
cube ([8.384009674191478 , 6.149354055523876 , 1.7255898751318508] , center=true);
//gt label: seat
color ([0.0 ,0.5 ,1.0])
translate ([11.328131407499313 , -3.83534662425518 , 6.951077654957772])
rotate ([-118.37347329569543 , -87.84206385000935 , 120.01609941712393])
cube ([10.536476969718937 , 5.810016915202144 , 1.9013191200792843] , center=true);
//gt label: arm
color ([0.5 ,0.75 ,0.5])
translate ([9.712061285972595 , -0.19002289976924655 , -16.23546838760376])
rotate ([-179.51433457792652 , -1.4935766439435625 , -86.39202382403056])
cube ([8.155665248632433 , 3.740893118083513 , 3.364970646798648] , center=true);
//gt label: leg
color ([1.0 ,0.5 ,0.0])
translate ([-7.134627178311349 , -7.975289896130563 , 0.007407343073282392])
rotate ([-113.26328268993919 , 89.92967318796993 , -19.235843135470493])
cube ([22.746100127696995 , 2.2620815038681084 , 1.6734210494905777] , center=true);
//gt label: back
color ([1.0 ,0.0 ,1.0])
translate ([-9.64383751153946 , 3.242398928850889 , 5.937490239739418])
rotate ([124.50903327404203 , -87.33166129176344 , 61.70988229728158])
cube ([8.593223839998249 , 5.110086016356947 , 2.243097536265852] , center=true);
//gt label: back
color ([1.0 ,0.0 ,1.0])
translate ([-9.075806811451912 , -3.030961900949478 , -11.81210845708847])
rotate ([74.63199509127305 , 84.70028261516227 , -103.73367047430244])
cube ([6.784284934401518 , 5.653989166021347 , 2.131040208041679] , center=true);
//gt label: leg
color ([1.0 ,0.5 ,0.0])
translate ([9.148417711257935 , -9.382099136710167 , 17.11809605360031])
rotate ([-4.968020709148986 , 3.798101773971535 , -93.9014263833732])
cube ([5.967696905136167 , 5.6704226508737205 , 2.5351978838443894] , center=true);
//gt label: back
color ([1.0 ,0.0 ,1.0])
translate ([-9.64007817208767 , 3.267190121114254 , -5.934619307518005])
rotate ([-58.06189424141626 , -87.37441147770456 , -115.7498893731446])
cube ([8.575739264488224 , 5.12268476188183 , 2.242436353117237] , center=true);
//gt label: seat
color ([0.0 ,0.5 ,1.0])
translate ([3.579420596361161 , 0.09449605946429077 , -6.181386709213257])
rotate ([90.82251773382816 , -1.341258449319268 , 0.9928294024460265])
cube ([10.57185344398022 , 6.003924496471884 , 1.319888755679131] , center=true);
//gt label: back
color ([1.0 ,0.0 ,1.0])
translate ([-10.203434079885483 , 9.612127766013145 , -11.622404009103775])
rotate ([-125.06479259978943 , -86.46166676448571 , -49.00506406620182])

```



```

cube([6.388581469655048,4.844061732292194,2.758722249418512],center=true);
//gt label: leg
color([1.0,0.5,0.0])
translate([-2.1866322495043278,-4.720134250819683,16.752963960170746])
rotate([179.56690297683338,4.785847731480057,-91.46430147580763])
cube([7.22234591841698,5.02015568315983,1.7432807758450592],center=true);
//gt label: arm
color([0.5,0.75,0.5])
translate([9.716272205114365,-0.23163912352174487,16.260819137096405])
rotate([179.22343103198583,1.4586201209913403,-86.23844599643725])
cube([8.151660040020946,3.734822198748885,3.39377565309438],center=true);
//gt label: leg
color([1.0,0.5,0.0])
translate([-9.298951923847198,-3.240146152675152,-0.011123452932224609])
rotate([49.92089385170738,-89.9031598881691,-46.89887658552939])
cube([11.788705810904505,4.511452391743662,1.8045132607221623],center=true);
//gt label: leg
color([1.0,0.5,0.0])
translate([-7.960064038634299,-9.485773965716362,16.787424981594086])
rotate([170.8429596305874,0.6666024546997006,-89.0254424330423])
cube([6.344076693058118,6.037443019449822,2.0827306061983224],center=true);
//gt label: seat
color([0.0,0.5,1.0])
translate([3.399093803018332,-3.88543713837862,-0.09961893549188955])
rotate([90.40023292275849,0.0219841897348893,-0.764818915969135])
cube([11.326858624815944,6.033792272210123,1.496833413839341],center=true);

```

Task:

```

//gt label: ***
translate([-14.379241466522217,-1.4327777363359928,3.432165253907442])
rotate([-89.8906439961192,72.06486113150841,0.33916275096654835])
cube([5.22511467337609,1.8507272377610346,0.12722646933981363],center=true);
//gt label: ***
translate([-4.689892344176769,-4.205830469727516,14.676300585269928])
rotate([-92.41374370312249,71.56159133791489,0.1150922306163651])
cube([6.07949033379555,2.4659978039562747,0.34893881762401274],center=true);

//gt label: ***
translate([-1.5893350262194874,-4.188789688050747,4.360119923949242])
rotate([-10.839169757964955,-86.65302178340283,99.10954413665007])
cube([5.5495791882276535,2.7453395910561103,0.743680293671789],center=true);
//gt label: ***
translate([-1.0291765443980696,-4.379029311239719,9.931433126330376])
rotate([-89.70324549643868,-84.1829831107987,-2.2214055295749935])
cube([4.76372726261617,4.4013271853327876,0.6496309861540865],center=true);
//gt label: ***
translate([-12.712700963020325,-1.1528310086578129,-0.037956243613734876])
rotate([143.6986956534412,0.46437753244110125,-9.39914650360689])
cube([3.4124705195427207,2.45395533740528,2.405040692538092],center=true);
//gt label: ***
translate([-3.303586132824421,-2.1400148421525955,-0.012198599069961402])
rotate([-179.8487821329813,0.04566453422849723,-1.546757039779757])
cube([13.261167854070663,3.426635861396792,3.194976914674046],center=true);
//gt label: ***
translate([-1.5760746877640484,-4.198968671262264,-4.350411780178548])
rotate([13.201863020653578,86.5395668647182,101.40184615964846])

```

```

cube([5.524439476430418,2.7468611113727097,0.7459424436092397],center=true);
//gt label: ***
translate([-4.709801189601421,-4.1979532316327095,-14.662889242172241])
rotate([92.95449334560206,-71.17966014336376,-0.06589732549748115])
cube([6.095076389610771,2.484403364360339,0.34865967929363895],center=true);
//gt label: ***
translate([-1.0262832790613174,-4.376330077648163,-9.927223846316338])
rotate([90.23711066443157,-83.74390568369569,177.74313012338342])
cube([4.7601740434765905,4.400968626141557,0.64976539462805],center=true);
//gt label: ***
translate([10.240879952907562,-2.4842165037989616,-0.01277930488868148])
rotate([179.9366177146892,-0.11114175736444476,-0.8646565240588133])
cube([11.867466717958454,3.4932164102792758,3.2916647568345097],center=true);
//gt label: ***
translate([-14.217626750469208,-1.4404156617820263,-3.50570697337389])
rotate([91.76885955381205,-67.69119752320073,-0.4460848230136764])
cube([5.253285951912408,1.8261546641588369,0.12881031492725242],center=true);
//gt label: ***
translate([17.794046103954315,-2.932734712958336,-0.0025601062225177884])
rotate([-153.01368703836872,89.49457059464926,26.33887855148037])
cube([1.3221963401883874,1.2848753482103545,0.9487679041922337],center=true);
//gt label: ***
translate([2.3020989634096627,-4.345961958169937,-4.272172935307026])
rotate([160.73347850287567,83.72395122937961,-110.0326433398113])
cube([5.181406103074554,4.2309546098113096,1.4322108030319223],center=true);
//gt label: ***
translate([2.294098995625973,-4.355607815086842,4.279787912964821])
rotate([-162.71192063282987,-83.86572783321868,-108.06174017839452])
cube([5.190586857497699,4.237833209335811,1.4364818576723428],center=true);
//gt label: ***
translate([-17.14067667722702,4.005718380212784,-0.01963946182513608])
rotate([-0.17231084772373145,-0.15952507820283718,99.50237198315423])
cube([3.2515583746135364,2.16392930597069,0.1584215543698521],center=true);
//gt label: ***
translate([-15.441789627075197,0.6475475011393432,-0.009473927784711093])
rotate([0.468714130794327,-0.26210844401817973,66.58997092676087])
cube([5.233722962439064,2.230983357876548,0.4179071402177218],center=true);

```

Chair^{Cube} Answer: 2

```

//gt label: body
translate([-14.379241466522217,-1.4327777363359928,3.432165253907442])
rotate([-89.8906439961192,72.06486113150841,0.33916275096654835])
cube([5.22511467337609,1.8507272377610346,0.12722646933981363],center=true);
//gt label: wing
translate([-4.689892344176769,-4.205830469727516,14.676300585269928])
rotate([-92.41374370312249,71.56159133791489,0.1150922306163651])
cube([6.07949033379555,2.4659978039562747,0.34893881762401274],center=true);

//gt label: wing
translate([-1.5893350262194874,-4.188789688050747,4.360119923949242])
rotate([-10.839169757964955,-86.65302178340283,99.10954413665007])
cube([5.5495791882276535,2.7453395910561103,0.743680293671789],center=true);
//gt label: body
translate([-1.0291765443980696,-4.379029311239719,9.931433126330376])
rotate([-89.70324549643868,-84.1829831107987,-2.2214055295749935])
cube([4.76372726261617,4.4013271853327876,0.6496309861540865],center=true);

```

```

//gt label: engine
translate([-12.712700963020325,-1.1528310086578129,-0.037956243613734876])
rotate([143.6986956534412, 0.46437753244110125, -9.39914650360689])
cube([3.4124705195427207,2.45395533740528,2.405040692538092],center=true);
//gt label: body
translate([-3.303586132824421,-2.1400148421525955,-0.012198599069961402])
rotate([-179.8487821329813, 0.04566453422849723, -1.546757039779757])
cube([13.261167854070663,3.426635861396792,3.194976914674046],center=true);
//gt label: wing
translate([-1.5760746877640484,-4.198968671262264,-4.350411780178548])
rotate([13.201863020653578, 86.5395668647182, 101.40184615964846])
cube([5.524439476430418,2.7468611113727097,0.7459424436092397],center=true);
//gt label: wing
translate([-4.709801189601421,-4.1979532316327095,-14.662889242172241])
rotate([92.95449334560206, -71.17966014336376, -0.06589732549748115])
cube([6.095076389610771,2.484403364360339,0.34865967929363895],center=true);
//gt label: body
translate([-1.0262832790613174,-4.376330077648163,-9.927223846316338])
rotate([90.23711066443157, -83.74390568369569, 177.74313012338342])
cube([4.7601740434765905,4.400968626141557,0.64976539462805],center=true);
//gt label: body
translate([10.240879952907562,-2.4842165037989616,-0.01277930488868148])
rotate([179.9366177146892, -0.11114175736444476, -0.8646565240588133])
cube([11.867466717958454,3.4932164102792758,3.2916647568345097],center=true);
//gt label: body
translate([-14.217626750469208,-1.4404156617820263,-3.50570697337389])
rotate([91.76885955381205, -67.69119752320073, -0.4460848230136764])
cube([5.253285951912408,1.8261546641588369,0.12881031492725242],center=true);
//gt label: engine
translate([17.794046103954315,-2.932734712958336,-0.0025601062225177884])
rotate([-153.01368703836872, 89.49457059464926, 26.33887855148037])
cube([1.3221963401883874,1.2848753482103545,0.9487679041922337],center=true);
//gt label: tail
translate([2.3020989634096627,-4.345961958169937,-4.272172935307026])
rotate([160.73347850287567, 83.72395122937961, -110.0326433398113])
cube([5.181406103074554,4.2309546098113096,1.4322108030319223],center=true);
//gt label: tail
translate([2.294098995625973,-4.355607815086842,4.279787912964821])
rotate([-162.71192063282987, -83.86572783321868, -108.06174017839452])
cube([5.190586857497699,4.237833209335811,1.4364818576723428],center=true);
//gt label: engine
translate([-17.14067667722702,4.005718380212784,-0.01963946182513608])
rotate([-0.17231084772373145, -0.15952507820283718, 99.50237198315423])
cube([3.2515583746135364,2.16392930597069,0.1584215543698521],center=true);
//gt label: engine
translate([-15.441789627075197,0.6475475011393432,-0.009473927784711093])
rotate([0.468714130794327, -0.26210844401817973, 66.58997092676087])
cube([5.233722962439064,2.230983357876548,0.4179071402177218],center=true);

```

Chair^{Cube} Question: 3

The following code describes a model airplane.
The airplane is consist of four parts, namely wing, body, tail, and engine.
Please annotate the following code to classify every code block. Block is defined with the 'code' sentence.

Here are an annotation example, please comment the given code following the structure of example.

Notice 1, all annotation should start with '//gt label:'.add()

Notice 2, The given example is a chair, with its own parts; the test code is an airplane. You should only learn the labelling structure and format from the example.

Please think step by step

Example:

```
$vpf=10;
//gt label: back
color ([1.0,0.0,1.0])
translate ([-10.102699026465416,10.26402935385704,-3.6753161251544957])
rotate ([160.473313961177, -89.20091550633077, 25.857542120103997])
cube ([5.998089201748401,5.496873855590852,2.7275216579437362],center=true);
//gt label: leg
color ([1.0,0.5,0.0])
translate ([3.732927367091179,-2.904376983642578,-11.460498347878456])
rotate ([83.29877169048444, -2.9336897478076938, 1.7717028406932804])
cube ([8.382892608642582,6.155845820903782,1.735029611736539],center=true);
//gt label: back
color ([1.0,0.0,1.0])
translate ([-8.782793059945107,3.62139455974102,15.663894712924957])
rotate ([-87.40114929902032, -7.852857001920019, -78.83163723758284])
cube ([6.794895827770238,3.729214332997853,3.4905253723264247],center=true);
//gt label: back
color ([1.0,0.0,1.0])
translate ([-8.779593482613564,3.617325834929943,-15.588458776473999])
rotate ([-93.00015151574158, 7.7665248868069465, -78.69589319770452])
cube ([6.850444637238985,3.7134024873376843,3.50097727030526],center=true);
//gt label: seat
color ([0.0,0.5,1.0])
translate ([-4.543414153158665,-0.27427916182205075,0.037627230340149254])
rotate ([178.94347486588424, -89.70424105439432, -85.27071527446944])
cube ([18.423856347799305,2.1212632209062714,1.9406176172197025],center=true);
//gt label: arm
color ([0.5,0.75,0.5])
translate ([2.0733951590955257,5.066008232533932,17.023869156837463])
rotate ([91.7214319118549, 0.3406500603276716, -2.6203325374871493])
cube ([10.25913737714291,3.2277557812631787,2.7297904156149206],center=true);
//gt label: leg
color ([1.0,0.5,0.0])
translate ([11.340873166918755,-3.8123963773250584,-7.010739445686339])
rotate ([-72.88008516677385, 87.58217744158522, 108.78816565725081])
cube ([10.556101426482204,5.8197381719946915,1.9262613169848932],center=true);
//gt label: seat
color ([0.0,0.5,1.0])
translate ([3.5820095986127862,0.09064220765139909,6.1641668528318405])
rotate ([89.2104703042929, 1.2608381063033902, 1.192188387930374])
cube ([10.568408817052845,5.991361811757091,1.3266931846737864],center=true);
//gt label: leg
color ([1.0,0.5,0.0])
translate ([-2.5054448470473294,0.16689690761268183,-15.275467336177828])
rotate ([-3.2440951788482777, 4.097956676977613, 2.330700434600856])
cube ([5.861916616559032,4.245237149298208,3.870627619326138],center=true);
//gt label: back
color ([1.0,0.0,1.0])
translate ([-10.208072811365128,9.639107808470726,11.658100113272667])
```

```

rotate([55.425968601985545, -86.39767308708605, 130.754210961323])
cube([6.383902989327948,4.814630374312455,2.755037285387574],center=true);
//gt label: leg
color([1.0,0.5,0.0])
translate([9.006593003869057,-9.398162588477135,-17.004275023937225])
rotate([175.41442227635292, 4.080280343132463, 86.05785075879909])
cube([5.964655913412629,5.68107657134539,2.5408555381000175],center=true);
//gt label: arm
color([0.5,0.75,0.5])
translate([2.109469901770353,5.1393235474824905,-17.009077668190002])
rotate([88.16578558433484, -0.3444949108333195, -2.480246085453709])
cube([10.31251966953278,3.205398693680834,2.780237849801861],center=true);
//gt label: back
color([1.0,0.0,1.0])
translate([-10.107187777757645,10.257183536887169,3.705678097903729])
rotate([156.88074195153723, -89.39487017508205, -150.53967334737442])
cube([6.004906333982966,5.507151186466243,2.736380118876707],center=true);
//gt label: leg
color([1.0,0.5,0.0])
translate([-7.875424399971962,-9.505232870578766,-16.675046384334564])
rotate([171.01609985432586, 0.45115233702222046, 91.66160109022213])
cube([6.27911273390072,6.107992306351841,2.095006648451098],center=true);
//gt label: seat
color([0.0,0.5,1.0])
translate([-2.510064523667097,0.1777876692358403,15.309423506259918])
rotate([-176.74110055873243, -4.028426752912393, 2.2137697851629663])
cube([5.870751515030861,4.2288897186518,3.894701898098023],center=true);
//gt label: leg
color([1.0,0.5,0.0])
translate([-9.073779210448265,-3.024441655725241,11.831634566187859])
rotate([-75.36801761901683, -84.78445282937601, -102.87252122632346])
cube([6.788535602390773,5.643370486795908,2.1411868184805107],center=true);
//gt label: leg
color([1.0,0.5,0.0])
translate([-2.1943599171936516,-4.719993695616722,-16.6744726896286])
rotate([-179.46182458895439, -5.0304710846126115, -91.58291220300536])
cube([7.197215631604195,4.997781999409202,1.748268026858577],center=true);
//gt label: seat
color([0.0,0.5,1.0])
translate([3.7228381261229515,-2.911844030022621,11.474919393658638])
rotate([-83.5367976237254, 2.8502622902619175, 1.7116861906056593])
cube([8.384009674191478,6.149354055523876,1.7255898751318508],center=true);
//gt label: seat
color([0.0,0.5,1.0])
translate([11.328131407499313,-3.83534662425518,6.951077654957772])
rotate([-118.37347329569543, -87.84206385000935, 120.01609941712393])
cube([10.536476969718937,5.810016915202144,1.9013191200792843],center=true);
//gt label: arm
color([0.5,0.75,0.5])
translate([9.712061285972595,-0.19002289976924655,-16.23546838760376])
rotate([-179.51433457792652, -1.4935766439435625, -86.39202382403056])
cube([8.155665248632433,3.740893118083513,3.364970646798648],center=true);
//gt label: leg
color([1.0,0.5,0.0])
translate([-7.134627178311349,-7.975289896130563,0.007407343073282392])
rotate([-113.26328268993919, 89.92967318796993, -19.235843135470493])
cube([22.746100127696995,2.2620815038681084,1.6734210494905777],center=true);
//gt label: back

```

```

color ([1.0 ,0.0 ,1.0])
translate ([-9.64383751153946 ,3.242398928850889 ,5.937490239739418])
rotate ([124.50903327404203 , -87.33166129176344 , 61.70988229728158])
cube ([8.593223839998249 ,5.110086016356947 ,2.243097536265852] ,center=true);
//gt label: back
color ([1.0 ,0.0 ,1.0])
translate ([-9.075806811451912 , -3.030961900949478 , -11.81210845708847])
rotate ([74.63199509127305 , 84.70028261516227 , -103.73367047430244])
cube ([6.784284934401518 ,5.653989166021347 ,2.131040208041679] ,center=true);
//gt label: leg
color ([1.0 ,0.5 ,0.0])
translate ([9.148417711257935 , -9.382099136710167 ,17.11809605360031])
rotate ([-4.968020709148986 , 3.798101773971535 , -93.9014263833732])
cube ([5.967696905136167 ,5.6704226508737205 ,2.5351978838443894] ,center=true);
//gt label: back
color ([1.0 ,0.0 ,1.0])
translate ([-9.64007817208767 ,3.267190121114254 , -5.934619307518005])
rotate ([-58.06189424141626 , -87.37441147770456 , -115.7498893731446])
cube ([8.575739264488224 ,5.12268476188183 ,2.242436353117237] ,center=true);
//gt label: seat
color ([0.0 ,0.5 ,1.0])
translate ([3.579420596361161 ,0.09449605946429077 , -6.181386709213257])
rotate ([90.82251773382816 , -1.341258449319268 , 0.9928294024460265])
cube ([10.57185344398022 ,6.003924496471884 ,1.319888755679131] ,center=true);
//gt label: back
color ([1.0 ,0.0 ,1.0])
translate ([-10.203434079885483 ,9.612127766013145 , -11.622404009103775])
rotate ([-125.06479259978943 , -86.46166676448571 , -49.00506406620182])
cube ([6.388581469655048 ,4.844061732292194 ,2.758722249418512] ,center=true);
//gt label: leg
color ([1.0 ,0.5 ,0.0])
translate ([-2.1866322495043278 , -4.720134250819683 ,16.752963960170746])
rotate ([179.56690297683338 , 4.785847731480057 , -91.46430147580763])
cube ([7.22234591841698 ,5.02015568315983 ,1.7432807758450592] ,center=true);
//gt label: arm
color ([0.5 ,0.75 ,0.5])
translate ([9.716272205114365 , -0.23163912352174487 ,16.260819137096405])
rotate ([179.22343103198583 , 1.4586201209913403 , -86.23844599643725])
cube ([8.151660040020946 ,3.734822198748885 ,3.39377565309438] ,center=true);
//gt label: leg
color ([1.0 ,0.5 ,0.0])
translate ([-9.298951923847198 , -3.240146152675152 , -0.011123452932224609])
rotate ([49.92089385170738 , -89.9031598881691 , -46.89887658552939])
cube ([11.788705810904505 ,4.511452391743662 ,1.8045132607221623] ,center=true);
//gt label: leg
color ([1.0 ,0.5 ,0.0])
translate ([-7.960064038634299 , -9.485773965716362 ,16.787424981594086])
rotate ([170.8429596305874 , 0.6666024546997006 , -89.0254424330423])
cube ([6.344076693058118 ,6.037443019449822 ,2.0827306061983224] ,center=true);
//gt label: seat
color ([0.0 ,0.5 ,1.0])
translate ([3.399093803018332 , -3.88543713837862 , -0.09961893549188955])
rotate ([90.40023292275849 , 0.0219841897348893 , -0.764818915969135])
cube ([11.326858624815944 ,6.033792272210123 ,1.496833413839341] ,center=true);

```

Task:

```

//gt label: ***
translate([-18.031493425369263, -0.879371538758278, 3.3500738441944127])
rotate([-111.45557055257179, 70.98867524928433, -21.415623979541834])
cube([5.698197670280939, 1.857860721647753, 0.11583969229832725], center=true);
//gt label: ***
translate([-4.05317522585392, -2.556444462388754, -13.916282951831818])
rotate([104.83362697532066, -63.78530813281644, -9.99065022559133])
cube([6.71284642070532, 2.1321101486682927, 0.3067173971794662], center=true);
//gt label: ***
translate([-16.954638957977295, 0.9377738647162914, -0.0187698789522983])
rotate([0.17586049775788598, 0.2639966728596206, 70.2598060147382])
cube([5.249424576759342, 2.284606192260994, 0.38507016142830297], center=true);
//gt label: ***
translate([-18.86580780148506, 4.120122529566288, -0.03561457677278668])
rotate([0.015577260699152738, 0.23327545333733019, 94.02326829810939])
cube([2.348678056150694, 1.7517704330385009, 0.14861202798783824], center=true);
//gt label: ***
translate([0.4944535344839095, -3.3902707882225513, 4.4299811869859695])
rotate([-169.70305450083723, 82.40043095194424, -81.27587109581378])
cube([4.816342443227768, 2.51477885991335, 0.7377750286832456], center=true);
//gt label: ***
translate([-17.88057565689087, -0.8994258567690849, -3.4547751769423485])
rotate([107.22073837463746, -65.46056644774335, -16.068992305603714])
cube([5.685839876532558, 1.8444823659956526, 0.1169114129152275], center=true);
//gt label: ***
translate([-4.4803401082754135, -2.3446794040501118, -0.010926213362836307])
rotate([179.99832540193842, 0.02092757387061096, -4.407551599006336])
cube([14.15883451700211, 3.96681245416403, 3.30937020480633], center=true);
//gt label: ***
translate([-14.322124421596527, -0.8669077139347791, -0.01120624168834193])
rotate([139.1750210010532, 1.0586025700072843, -8.062447364094146])
cube([3.378987442702065, 2.51641757786275, 2.4365506693720933], center=true);
//gt label: ***
translate([19.35147315263748, -2.3588359355926514, -0.017098860262194666])
rotate([103.22551892903451, -89.68850952659633, -103.02606851346802])
cube([1.4854588918388032, 1.4666296169162056, 0.9966680314392127], center=true);
//gt label: ***
translate([4.486228674650192, -3.5031433776021004, -4.64188925921917])
rotate([179.0626689301875, -82.27737919139358, 88.5497614067408])
cube([5.281359702348712, 3.9733247086405776, 1.3640574086457538], center=true);
//gt label: ***
translate([-0.3295525722205638, -3.1723587960004807, -9.958050921559334])
rotate([-33.57586497967647, -82.35632091017473, 124.19392975594913])
cube([4.933460578322414, 3.70298828929663, 0.6161986198276308], center=true);
//gt label: ***
translate([4.485025964677334, -3.4974084794521336, 4.64983657002449])
rotate([-1.5794320693704758, -82.50112081866051, -90.85857518356286])
cube([5.2757825702428836, 3.977863043546678, 1.3635911792516748], center=true);
//gt label: ***
translate([0.49646740779280674, -3.4003819525241856, -4.430934749543667])
rotate([169.43364803307446, -82.54568553642547, -80.71195981728893])
cube([4.822181425988676, 2.514653671532871, 0.7399983005598232], center=true);
//gt label: ***
translate([-0.3278399910777808, -3.1725186109542847, 9.961305409669876])
rotate([33.92674482592437, 82.53643281067012, 124.41954626868937])
cube([4.929474629461776, 3.7014614418149105, 0.614628540351993], center=true);
//gt label: ***
translate([-4.047834537923336, -2.5251344591379166, 13.977147042751312])

```

```

rotate([-104.84296394673429, 63.76993566668482, -10.467470552035177])
cube([6.699303947389131,2.119463663548242,0.30590198235588006],center=true);

//gt label: ***
translate([10.91297559440136,-2.18883503228426,-0.016058923356467743])
rotate([0.06424524681481897, -0.36448483783202995, 1.5600131310411343])
cube([13.592597842216492,4.056088775396351,3.3325081318616876],center=true);

```

Chair^{Cube} Answer: 3

```

//gt label: wing
translate([-18.031493425369263,-0.879371538758278,3.3500738441944127])
rotate([-111.45557055257179, 70.98867524928433, -21.415623979541834])
cube([5.698197670280939,1.857860721647753,0.11583969229832725],center=true);
//gt label: wing
translate([-4.05317522585392,-2.556444462388754,-13.916282951831818])
rotate([104.83362697532066, -63.78530813281644, -9.99065022559133])
cube([6.71284642070532,2.1321101486682927,0.3067173971794662],center=true);
//gt label: body
translate([-16.954638957977295,0.9377738647162914,-0.0187698789522983])
rotate([0.17586049775788598, 0.2639966728596206, 70.2598060147382])
cube([5.249424576759342,2.284606192260994,0.38507016142830297],center=true);
//gt label: engine
translate([-18.86580780148506,4.120122529566288,-0.03561457677278668])
rotate([0.015577260699152738, 0.23327545333733019, 94.02326829810939])
cube([2.348678056150694,1.7517704330385009,0.14861202798783824],center=true);
//gt label: tail
translate([0.4944535344839095,-3.3902707882225513,4.4299811869859695])
rotate([-169.70305450083723, 82.40043095194424, -81.27587109581378])
cube([4.816342443227768,2.51477885991335,0.7377750286832456],center=true);
//gt label: wing
translate([-17.88057565689087,-0.8994258567690849,-3.4547751769423485])
rotate([107.22073837463746, -65.46056644774335, -16.068992305603714])
cube([5.685839876532558,1.8444823659956526,0.1169114129152275],center=true);
//gt label: body
translate([-4.4803401082754135,-2.3446794040501118,-0.010926213362836307])
rotate([179.99832540193842, 0.02092757387061096, -4.407551599006336])
cube([14.15883451700211,3.96681245416403,3.30937020480633],center=true);
//gt label: engine
translate([-14.322124421596527,-0.8669077139347791,-0.01120624168834193])
rotate([139.1750210010532, 1.0586025700072843, -8.062447364094146])
cube([3.378987442702065,2.51641757786275,2.4365506693720933],center=true);
//gt label: engine
translate([19.35147315263748,-2.3588359355926514,-0.017098860262194666])
rotate([103.22551892903451, -89.68850952659633, -103.02606851346802])
cube([1.4854588918388032,1.4666296169162056,0.9966680314392127],center=true);
//gt label: tail
translate([4.486228674650192,-3.5031433776021004,-4.64188925921917])
rotate([179.0626689301875, -82.27737919139358, 88.5497614067408])
cube([5.281359702348712,3.9733247086405776,1.3640574086457538],center=true);
//gt label: wing
translate([-0.3295525722205638,-3.1723587960004807,-9.958050921559334])
rotate([-33.57586497967647, -82.35632091017473, 124.19392975594913])
cube([4.933460578322414,3.70298828929663,0.6161986198276308],center=true);
//gt label: tail
translate([4.485025964677334,-3.4974084794521336,4.64983657002449])
rotate([-1.5794320693704758, -82.50112081866051, -90.85857518356286])

```



```

cube([5.2757825702428836,3.977863043546678,1.3635911792516748],center=true);
//gt label: wing
translate([0.49646740779280674,-3.4003819525241856,-4.430934749543667])
rotate([169.43364803307446,-82.54568553642547,-80.71195981728893])
cube([4.822181425988676,2.514653671532871,0.7399983005598232],center=true);
//gt label: wing
translate([-0.3278399910777808,-3.1725186109542847,9.961305409669876])
rotate([33.92674482592437,82.53643281067012,124.41954626868937])
cube([4.929474629461776,3.7014614418149105,0.614628540351993],center=true);
//gt label: wing
translate([-4.047834537923336,-2.5251344591379166,13.977147042751312])
rotate([-104.84296394673429,63.76993566668482,-10.467470552035177])
cube([6.699303947389131,2.119463663548242,0.30590198235588006],center=true);

//gt label: body
translate([10.91297559440136,-2.18883503228426,-0.016058923356467743])
rotate([0.06424524681481897,-0.36448483783202995,1.5600131310411343])
cube([13.592597842216492,4.056088775396351,3.3325081318616876],center=true);

```

Chair^{Cube} Question: 4

The following code describes a model airplane.

The airplane is consist of four parts, namely wing, body, tail, and engine.

Please annotate the following code to classify every code block. Block is defined with the 'code' sentence.

Here are an annotation example, please comment the given code following the structure of example.

Notice 1, all annotation should start with '//gt label:'.add()

Notice 2, The given example is a chair, with its own parts; the test code is an airplane. You should only learn the labelling structure and format from the example.

Please think step by step

Example:

```

$vpf=10;
//gt label: back
color([1.0,0.0,1.0])
translate([-10.102699026465416,10.26402935385704,-3.6753161251544957])
rotate([160.473313961177,-89.20091550633077,25.857542120103997])
cube([5.998089201748401,5.496873855590852,2.7275216579437362],center=true);
//gt label: leg
color([1.0,0.5,0.0])
translate([3.732927367091179,-2.904376983642578,-11.460498347878456])
rotate([83.29877169048444,-2.9336897478076938,1.7717028406932804])
cube([8.382892608642582,6.155845820903782,1.735029611736539],center=true);
//gt label: back
color([1.0,0.0,1.0])
translate([-8.782793059945107,3.62139455974102,15.663894712924957])
rotate([-87.40114929902032,-7.852857001920019,-78.83163723758284])
cube([6.794895827770238,3.729214332997853,3.4905253723264247],center=true);
//gt label: back
color([1.0,0.0,1.0])
translate([-8.779593482613564,3.617325834929943,-15.588458776473999])
rotate([-93.00015151574158,7.7665248868069465,-78.69589319770452])
cube([6.850444637238985,3.7134024873376843,3.50097727030526],center=true);

```

```

//gt label: seat
color ([0.0 ,0.5 ,1.0])
translate ([-4.543414153158665, -0.27427916182205075, 0.037627230340149254])
rotate ([178.94347486588424, -89.70424105439432, -85.27071527446944])
cube ([18.423856347799305, 2.1212632209062714, 1.9406176172197025], center=true);
//gt label: arm
color ([0.5 ,0.75 ,0.5])
translate ([2.0733951590955257, 5.066008232533932, 17.023869156837463])
rotate ([91.7214319118549, 0.3406500603276716, -2.6203325374871493])
cube ([10.25913737714291, 3.2277557812631787, 2.7297904156149206], center=true);
//gt label: leg
color ([1.0 ,0.5 ,0.0])
translate ([11.340873166918755, -3.8123963773250584, -7.010739445686339])
rotate ([-72.88008516677385, 87.58217744158522, 108.78816565725081])
cube ([10.556101426482204, 5.8197381719946915, 1.9262613169848932], center=true);
//gt label: seat
color ([0.0 ,0.5 ,1.0])
translate ([3.5820095986127862, 0.09064220765139909, 6.1641668528318405])
rotate ([89.2104703042929, 1.2608381063033902, 1.192188387930374])
cube ([10.568408817052845, 5.991361811757091, 1.3266931846737864], center=true);
//gt label: leg
color ([1.0 ,0.5 ,0.0])
translate ([-2.5054448470473294, 0.16689690761268183, -15.275467336177828])
rotate ([-3.2440951788482777, 4.097956676977613, 2.330700434600856])
cube ([5.861916616559032, 4.245237149298208, 3.870627619326138], center=true);
//gt label: back
color ([1.0 ,0.0 ,1.0])
translate ([-10.208072811365128, 9.639107808470726, 11.658100113272667])
rotate ([55.425968601985545, -86.39767308708605, 130.754210961323])
cube ([6.383902989327948, 4.814630374312455, 2.755037285387574], center=true);
//gt label: leg
color ([1.0 ,0.5 ,0.0])
translate ([9.006593003869057, -9.398162588477135, -17.004275023937225])
rotate ([175.41442227635292, 4.080280343132463, 86.05785075879909])
cube ([5.964655913412629, 5.68107657134539, 2.5408555381000175], center=true);
//gt label: arm
color ([0.5 ,0.75 ,0.5])
translate ([2.109469901770353, 5.1393235474824905, -17.009077668190002])
rotate ([88.16578558433484, -0.3444949108333195, -2.480246085453709])
cube ([10.31251966953278, 3.205398693680834, 2.780237849801861], center=true);
//gt label: back
color ([1.0 ,0.0 ,1.0])
translate ([-10.107187777757645, 10.257183536887169, 3.705678097903729])
rotate ([156.88074195153723, -89.39487017508205, -150.53967334737442])
cube ([6.004906333982966, 5.507151186466243, 2.736380118876707], center=true);
//gt label: leg
color ([1.0 ,0.5 ,0.0])
translate ([-7.875424399971962, -9.505232870578766, -16.675046384334564])
rotate ([171.01609985432586, 0.45115233702222046, 91.66160109022213])
cube ([6.27911273390072, 6.107992306351841, 2.095006648451098], center=true);
//gt label: seat
color ([0.0 ,0.5 ,1.0])
translate ([-2.510064523667097, 0.1777876692358403, 15.309423506259918])
rotate ([-176.74110055873243, -4.028426752912393, 2.2137697851629663])
cube ([5.870751515030861, 4.2288897186518, 3.894701898098023], center=true);
//gt label: leg
color ([1.0 ,0.5 ,0.0])
translate ([-9.073779210448265, -3.024441655725241, 11.831634566187859])

```

```

rotate([-75.36801761901683, -84.78445282937601, -102.87252122632346])
cube([6.788535602390773,5.643370486795908,2.1411868184805107],center=true);
//gt label: leg
color([1.0,0.5,0.0])
translate([-2.1943599171936516,-4.719993695616722,-16.6744726896286])
rotate([-179.46182458895439, -5.0304710846126115, -91.58291220300536])
cube([7.197215631604195,4.997781999409202,1.748268026858577],center=true);
//gt label: seat
color([0.0,0.5,1.0])
translate([3.7228381261229515,-2.911844030022621,11.474919393658638])
rotate([-83.5367976237254, 2.8502622902619175, 1.7116861906056593])
cube([8.384009674191478,6.149354055523876,1.7255898751318508],center=true);
//gt label: seat
color([0.0,0.5,1.0])
translate([11.328131407499313,-3.83534662425518,6.951077654957772])
rotate([-118.37347329569543, -87.84206385000935, 120.01609941712393])
cube([10.536476969718937,5.810016915202144,1.9013191200792843],center=true);
//gt label: arm
color([0.5,0.75,0.5])
translate([9.712061285972595,-0.19002289976924655,-16.23546838760376])
rotate([-179.51433457792652, -1.4935766439435625, -86.39202382403056])
cube([8.155665248632433,3.740893118083513,3.364970646798648],center=true);
//gt label: leg
color([1.0,0.5,0.0])
translate([-7.134627178311349,-7.975289896130563,0.007407343073282392])
rotate([-113.26328268993919, 89.92967318796993, -19.235843135470493])
cube([22.746100127696995,2.2620815038681084,1.6734210494905777],center=true);
//gt label: back
color([1.0,0.0,1.0])
translate([-9.64383751153946,3.242398928850889,5.937490239739418])
rotate([124.50903327404203, -87.33166129176344, 61.70988229728158])
cube([8.593223839998249,5.110086016356947,2.243097536265852],center=true);
//gt label: back
color([1.0,0.0,1.0])
translate([-9.075806811451912,-3.030961900949478,-11.81210845708847])
rotate([74.63199509127305, 84.70028261516227, -103.73367047430244])
cube([6.784284934401518,5.653989166021347,2.131040208041679],center=true);
//gt label: leg
color([1.0,0.5,0.0])
translate([9.148417711257935,-9.382099136710167,17.11809605360031])
rotate([-4.968020709148986, 3.798101773971535, -93.9014263833732])
cube([5.967696905136167,5.6704226508737205,2.5351978838443894],center=true);
//gt label: back
color([1.0,0.0,1.0])
translate([-9.64007817208767,3.267190121114254,-5.934619307518005])
rotate([-58.06189424141626, -87.37441147770456, -115.7498893731446])
cube([8.575739264488224,5.12268476188183,2.242436353117237],center=true);
//gt label: seat
color([0.0,0.5,1.0])
translate([3.579420596361161,0.09449605946429077,-6.181386709213257])
rotate([90.82251773382816, -1.341258449319268, 0.9928294024460265])
cube([10.57185344398022,6.003924496471884,1.319888755679131],center=true);
//gt label: back
color([1.0,0.0,1.0])
translate([-10.203434079885483,9.612127766013145,-11.622404009103775])
rotate([-125.06479259978943, -86.46166676448571, -49.00506406620182])
cube([6.388581469655048,4.844061732292194,2.758722249418512],center=true);
//gt label: leg

```

```

color ([1.0 ,0.5 ,0.0])
translate ([-2.1866322495043278, -4.720134250819683, 16.752963960170746])
rotate ([179.56690297683338, 4.785847731480057, -91.46430147580763])
cube ([7.22234591841698, 5.02015568315983, 1.7432807758450592], center=true);
//gt label: arm
color ([0.5 ,0.75 ,0.5])
translate ([9.716272205114365, -0.23163912352174487, 16.260819137096405])
rotate ([179.22343103198583, 1.4586201209913403, -86.23844599643725])
cube ([8.151660040020946, 3.734822198748885, 3.39377565309438], center=true);
//gt label: leg
color ([1.0 ,0.5 ,0.0])
translate ([-9.298951923847198, -3.240146152675152, -0.011123452932224609])
rotate ([49.92089385170738, -89.9031598881691, -46.89887658552939])
cube ([11.788705810904505, 4.511452391743662, 1.8045132607221623], center=true);
//gt label: leg
color ([1.0 ,0.5 ,0.0])
translate ([-7.960064038634299, -9.485773965716362, 16.787424981594086])
rotate ([170.8429596305874, 0.6666024546997006, -89.0254424330423])
cube ([6.344076693058118, 6.037443019449822, 2.0827306061983224], center=true);
//gt label: seat
color ([0.0 ,0.5 ,1.0])
translate ([3.399093803018332, -3.88543713837862, -0.09961893549188955])
rotate ([90.40023292275849, 0.0219841897348893, -0.764818915969135])
cube ([11.326858624815944, 6.033792272210123, 1.496833413839341], center=true);

```

Task:

```

//gt label: ***
translate ([-4.937656745314598, -0.5644229799509047, -7.185888439416885])
rotate ([-92.91445405869247, 2.455161973253575, -2.4629148932128375])
cube ([4.833789318799984, 3.843483254313482, 1.1417334992438573], center=true);
//gt label: ***
translate ([-5.55074255913496, -0.11100573814474046, -19.73050832748413])
rotate ([83.78349109368294, -79.29331185591928, 2.630074341079378])
cube ([8.78828905522824, 3.86009335517884, 0.8084750128909952], center=true);
//gt label: ***
translate ([-5.989491157233715, 0.15583618893288073, 4.4798192754387856])
rotate ([86.43053739620203, -7.2321807615674985, -1.2067466120143868])
cube ([1.7808299139142107, 1.363333221524963, 0.9327511675655858], center=true);
//gt label: ***
translate ([-2.346137408167124, 0.2446413505822419, 0.03922483883798123])
rotate ([91.7418282457279, 1.435789465910794, 177.94691896766312])
cube ([5.6527036800980675, 5.3877161443233605, 2.396653685718777], center=true);
//gt label: ***
translate ([-6.632417291402817, 0.042038779356516884, 0.12106833048164842])
rotate ([-2.7018029000444166, -89.3967839932089, -91.08199256885845])
cube ([3.0631588771939287, 1.395140290260329, 1.2514802720397846], center=true);
//gt label: ***
translate ([1.9122754596173763, -0.4782107518985869, -6.530029997229575])
rotate ([-95.75699191593023, 3.2416210445054503, 0.1610515868166719])
cube ([5.7569894939661115, 4.427450783550748, 2.0465208403766164], center=true);
//gt label: ***
translate ([-2.7720776572823524, -0.18513750517740848, 12.895326837897302])
rotate ([54.223714049713195, -82.86780415923307, -145.31477929124017])
cube ([5.710964836180443, 5.557915382087465, 0.9538877196609985], center=true);
//gt label: ***
translate ([7.582060694694519, -0.8136134734377265, 0.010673422730178574])

```

```

rotate([117.5908223508261, -89.88028052667747, 151.2633523186206])
cube([2.9756208509206776,2.2291155718266973,1.6206164471805113],center=true);
//gt label: ***
translate([-6.006421707570553,0.19017482642084363,-4.3698641285300255])
rotate([-86.15866192972756, 7.901237713326876, -0.04428547162047872])
cube([1.8119565397500996,1.400645608082416,0.9536156244576006],center=true);
//gt label: ***
translate([-4.929370135068893,-0.5756483925506473,7.199982479214668])
rotate([-87.08286068428667, -2.7126465891434703, -2.3110198425153032])
cube([4.817005470395101,3.8513572141528303,1.1392100621014838],center=true);
//gt label: ***
translate([-7.908781468868256,0.5355192162096499,0.12190410634502771])
rotate([-169.43527643470225, 89.51704969640711, 106.068263012849])
cube([2.740756589919329,1.0123296920210139,0.3820433071814509],center=true);
//gt label: ***
translate([9.820144549012184,-1.0545084439218044,0.05640826944727452])
rotate([114.05685845481116, 89.85865331195842, -156.58582582443725])
cube([0.8348011970520022,0.3526416327804888,0.3014790266752922],center=true);
//gt label: ***
translate([1.8948503024876118,-0.4846544191241265,6.544039212167263])
rotate([96.02241750533642, -3.1346558991233366, 0.12475104841918119])
cube([5.755106955766679,4.3895303830504435,2.031264044344426],center=true);
//gt label: ***
translate([3.5717224329710007,-0.7832196913659571,0.048454075586050804])
rotate([64.21646037555853, -89.92472175650519, -156.14423337454508])
cube([7.313624843955042,4.448320977389814,2.53123488277197],center=true);
//gt label: ***
translate([-5.636060796678066,-0.11684840894304216,19.767055958509445])
rotate([-83.49157131139361, 79.07282323743146, 3.0570158717859184])
cube([8.758708536624912,3.8033426553010985,0.7928261067718279],center=true);

//gt label: ***
translate([-2.74593910202384,-0.16718886443413794,-12.884780690073967])
rotate([-123.40912611547402, -83.20658375898917, 32.257242035233844])
cube([5.676467753946797,5.533650554716602,0.9517370816320206],center=true);

```

Chair^{Cube} Answer: 4

```

//gt label: body
translate([-4.937656745314598,-0.5644229799509047,-7.185888439416885])
rotate([-92.91445405869247, 2.455161973253575, -2.4629148932128375])
cube([4.833789318799984,3.843483254313482,1.1417334992438573],center=true);

//gt label: wing
translate([-5.55074255913496,-0.11100573814474046,-19.73050832748413])
rotate([83.78349109368294, -79.29331185591928, 2.630074341079378])
cube([8.78828905522824,3.86009335517884,0.8084750128909952],center=true);

//gt label: engine
translate([-5.989491157233715,0.15583618893288073,4.4798192754387856])
rotate([86.43053739620203, -7.2321807615674985, -1.2067466120143868])
cube([1.7808299139142107,1.363333221524963,0.9327511675655858],center=true);

//gt label: tail
translate([-2.346137408167124,0.2446413505822419,0.03922483883798123])
rotate([91.7418282457279, 1.435789465910794, 177.94691896766312])
cube([5.6527036800980675,5.3877161443233605,2.396653685718777],center=true);

```

```

//gt label: engine
translate([-6.632417291402817,0.042038779356516884,0.12106833048164842])
rotate([-2.7018029000444166, -89.3967839932089, -91.08199256885845])
cube([3.0631588771939287,1.395140290260329,1.2514802720397846],center=true);

//gt label: wing
translate([1.9122754596173763,-0.4782107518985869,-6.530029997229575])
rotate([-95.75699191593023, 3.2416210445054503, 0.1610515868166719])
cube([5.7569894939661115,4.427450783550748,2.0465208403766164],center=true);

//gt label: tail
translate([-2.7720776572823524,-0.18513750517740848,12.895326837897302])
rotate([54.223714049713195, -82.86780415923307, -145.31477929124017])
cube([5.710964836180443,5.557915382087465,0.9538877196609985],center=true);

//gt label: engine
translate([7.582060694694519,-0.8136134734377265,0.010673422730178574])
rotate([117.5908223508261, -89.88028052667747, 151.2633523186206])
cube([2.9756208509206776,2.2291155718266973,1.6206164471805113],center=true);

//gt label: engine
translate([-6.006421707570553,0.19017482642084363,-4.3698641285300255])
rotate([-86.15866192972756, 7.901237713326876, -0.04428547162047872])
cube([1.8119565397500996,1.400645608082416,0.9536156244576006],center=true);

//gt label: body
translate([-4.929370135068893,-0.5756483925506473,7.199982479214668])
rotate([-87.08286068428667, -2.7126465891434703, -2.3110198425153032])
cube([4.817005470395101,3.8513572141528303,1.1392100621014838],center=true);

//gt label: engine
translate([-7.908781468868256,0.5355192162096499,0.12190410634502771])
rotate([-169.43527643470225, 89.51704969640711, 106.068263012849])
cube([2.740756589919329,1.0123296920210139,0.3820433071814509],center=true);

//gt label: engine
translate([9.820144549012184,-1.0545084439218044,0.05640826944727452])
rotate([114.05685845481116, 89.85865331195842, -156.58582582443725])
cube([0.8348011970520022,0.3526416327804888,0.3014790266752922],center=true);

//gt label: wing
translate([1.8948503024876118,-0.4846544191241265,6.544039212167263])
rotate([96.02241750533642, -3.1346558991233366, 0.12475104841918119])
cube([5.755106955766679,4.3895303830504435,2.031264044344426],center=true);

//gt label: body
translate([3.5717224329710007,-0.7832196913659571,0.048454075586050804])
rotate([64.21646037555853, -89.92472175650519, -156.14423337454508])
cube([7.313624843955042,4.448320977389814,2.53123488277197],center=true);

//gt label: wing
translate([-5.636060796678066,-0.11684840894304216,19.767055958509445])
rotate([-83.49157131139361, 79.07282323743146, 3.0570158717859184])
cube([8.758708536624912,3.8033426553010985,0.7928261067718279],center=true);

//gt label: tail
translate([-2.74593910202384,-0.16718886443413794,-12.884780690073967])

```

```
rotate([-123.40912611547402, -83.20658375898917, 32.257242035233844])
cube([5.676467753946797,5.533650554716602,0.9517370816320206],center=true);
```

Chair^{Cube} Question: 5

The following code describes a model airplane.

The airplane is consist of four parts, namely wing, body, tail, and engine.

Please annotate the following code to classify every code block. Block is defined with the 'code' sentence.

Here are an annotation example, please comment the given code following the structure of example.

Notice 1, all annotation should start with '//gt label:'.add()

Notice 2, The given example is a chair, with its own parts; the test code is an airplane. You should only learn the labelling structure and format from the example.

Please think step by step

Example:

```
$vpf=10;
//gt label: back
color([1.0,0.0,1.0])
translate([-10.102699026465416,10.26402935385704,-3.6753161251544957])
rotate([160.473313961177, -89.20091550633077, 25.857542120103997])
cube([5.998089201748401,5.496873855590852,2.7275216579437362],center=true);
//gt label: leg
color([1.0,0.5,0.0])
translate([3.732927367091179,-2.904376983642578,-11.460498347878456])
rotate([83.29877169048444, -2.9336897478076938, 1.7717028406932804])
cube([8.382892608642582,6.155845820903782,1.735029611736539],center=true);
//gt label: back
color([1.0,0.0,1.0])
translate([-8.782793059945107,3.62139455974102,15.663894712924957])
rotate([-87.40114929902032, -7.852857001920019, -78.83163723758284])
cube([6.794895827770238,3.729214332997853,3.4905253723264247],center=true);
//gt label: back
color([1.0,0.0,1.0])
translate([-8.779593482613564,3.617325834929943,-15.588458776473999])
rotate([-93.00015151574158, 7.7665248868069465, -78.69589319770452])
cube([6.850444637238985,3.7134024873376843,3.50097727030526],center=true);
//gt label: seat
color([0.0,0.5,1.0])
translate([-4.543414153158665,-0.27427916182205075,0.037627230340149254])
rotate([178.94347486588424, -89.70424105439432, -85.27071527446944])
cube([18.423856347799305,2.1212632209062714,1.9406176172197025],center=true);
//gt label: arm
color([0.5,0.75,0.5])
translate([2.0733951590955257,5.066008232533932,17.023869156837463])
rotate([91.7214319118549, 0.3406500603276716, -2.6203325374871493])
cube([10.25913737714291,3.2277557812631787,2.7297904156149206],center=true);
//gt label: leg
color([1.0,0.5,0.0])
translate([11.340873166918755,-3.8123963773250584,-7.010739445686339])
rotate([-72.88008516677385, 87.58217744158522, 108.78816565725081])
cube([10.556101426482204,5.8197381719946915,1.9262613169848932],center=true);
//gt label: seat
```

```

color ([0.0 ,0.5 ,1.0])
translate ([3.5820095986127862,0.09064220765139909,6.1641668528318405])
rotate ([89.2104703042929, 1.2608381063033902, 1.192188387930374])
cube ([10.568408817052845,5.991361811757091,1.3266931846737864],center=true);
//gt label: leg
color ([1.0 ,0.5 ,0.0])
translate ([-2.5054448470473294,0.16689690761268183,-15.275467336177828])
rotate ([-3.2440951788482777, 4.097956676977613, 2.330700434600856])
cube ([5.861916616559032,4.245237149298208,3.870627619326138],center=true);
//gt label: back
color ([1.0 ,0.0 ,1.0])
translate ([-10.208072811365128,9.639107808470726,11.658100113272667])
rotate ([55.425968601985545, -86.39767308708605, 130.754210961323])
cube ([6.383902989327948,4.814630374312455,2.755037285387574],center=true);
//gt label: leg
color ([1.0 ,0.5 ,0.0])
translate ([9.006593003869057,-9.398162588477135,-17.004275023937225])
rotate ([175.41442227635292, 4.080280343132463, 86.05785075879909])
cube ([5.964655913412629,5.68107657134539,2.5408555381000175],center=true);
//gt label: arm
color ([0.5 ,0.75 ,0.5])
translate ([2.109469901770353,5.1393235474824905,-17.009077668190002])
rotate ([88.16578558433484, -0.3444949108333195, -2.480246085453709])
cube ([10.31251966953278,3.205398693680834,2.780237849801861],center=true);
//gt label: back
color ([1.0 ,0.0 ,1.0])
translate ([-10.107187777757645,10.257183536887169,3.705678097903729])
rotate ([156.88074195153723, -89.39487017508205, -150.53967334737442])
cube ([6.004906333982966,5.507151186466243,2.736380118876707],center=true);
//gt label: leg
color ([1.0 ,0.5 ,0.0])
translate ([-7.875424399971962,-9.505232870578766,-16.675046384334564])
rotate ([171.01609985432586, 0.45115233702222046, 91.66160109022213])
cube ([6.27911273390072,6.107992306351841,2.095006648451098],center=true);
//gt label: seat
color ([0.0 ,0.5 ,1.0])
translate ([-2.510064523667097,0.1777876692358403,15.309423506259918])
rotate ([-176.74110055873243, -4.028426752912393, 2.2137697851629663])
cube ([5.870751515030861,4.2288897186518,3.894701898098023],center=true);
//gt label: leg
color ([1.0 ,0.5 ,0.0])
translate ([-9.073779210448265,-3.024441655725241,11.831634566187859])
rotate ([-75.36801761901683, -84.78445282937601, -102.87252122632346])
cube ([6.788535602390773,5.643370486795908,2.1411868184805107],center=true);
//gt label: leg
color ([1.0 ,0.5 ,0.0])
translate ([-2.1943599171936516,-4.719993695616722,-16.6744726896286])
rotate ([-179.46182458895439, -5.0304710846126115, -91.58291220300536])
cube ([7.197215631604195,4.997781999409202,1.748268026858577],center=true);
//gt label: seat
color ([0.0 ,0.5 ,1.0])
translate ([3.7228381261229515,-2.911844030022621,11.474919393658638])
rotate ([-83.5367976237254, 2.8502622902619175, 1.7116861906056593])
cube ([8.384009674191478,6.149354055523876,1.7255898751318508],center=true);
//gt label: seat
color ([0.0 ,0.5 ,1.0])
translate ([11.328131407499313,-3.83534662425518,6.951077654957772])
rotate ([-118.37347329569543, -87.84206385000935, 120.01609941712393])

```



```

cube([10.536476969718937,5.810016915202144,1.9013191200792843],center=true);
//gt label: arm
color([0.5,0.75,0.5])
translate([9.712061285972595,-0.19002289976924655,-16.23546838760376])
rotate([-179.51433457792652,-1.4935766439435625,-86.39202382403056])
cube([8.155665248632433,3.740893118083513,3.364970646798648],center=true);
//gt label: leg
color([1.0,0.5,0.0])
translate([-7.134627178311349,-7.975289896130563,0.007407343073282392])
rotate([-113.26328268993919,89.92967318796993,-19.235843135470493])
cube([22.746100127696995,2.2620815038681084,1.6734210494905777],center=true);
//gt label: back
color([1.0,0.0,1.0])
translate([-9.64383751153946,3.242398928850889,5.937490239739418])
rotate([124.50903327404203,-87.33166129176344,61.70988229728158])
cube([8.593223839998249,5.110086016356947,2.243097536265852],center=true);
//gt label: back
color([1.0,0.0,1.0])
translate([-9.075806811451912,-3.030961900949478,-11.81210845708847])
rotate([74.63199509127305,84.70028261516227,-103.73367047430244])
cube([6.784284934401518,5.653989166021347,2.131040208041679],center=true);
//gt label: leg
color([1.0,0.5,0.0])
translate([9.148417711257935,-9.382099136710167,17.11809605360031])
rotate([-4.968020709148986,3.798101773971535,-93.9014263833732])
cube([5.967696905136167,5.6704226508737205,2.5351978838443894],center=true);
//gt label: back
color([1.0,0.0,1.0])
translate([-9.64007817208767,3.267190121114254,-5.934619307518005])
rotate([-58.06189424141626,-87.37441147770456,-115.7498893731446])
cube([8.575739264488224,5.12268476188183,2.242436353117237],center=true);
//gt label: seat
color([0.0,0.5,1.0])
translate([3.579420596361161,0.09449605946429077,-6.181386709213257])
rotate([90.82251773382816,-1.341258449319268,0.9928294024460265])
cube([10.57185344398022,6.003924496471884,1.319888755679131],center=true);
//gt label: back
color([1.0,0.0,1.0])
translate([-10.203434079885483,9.612127766013145,-11.622404009103775])
rotate([-125.06479259978943,-86.46166676448571,-49.00506406620182])
cube([6.388581469655048,4.844061732292194,2.758722249418512],center=true);
//gt label: leg
color([1.0,0.5,0.0])
translate([-2.1866322495043278,-4.720134250819683,16.752963960170746])
rotate([179.56690297683338,4.785847731480057,-91.46430147580763])
cube([7.22234591841698,5.02015568315983,1.7432807758450592],center=true);
//gt label: arm
color([0.5,0.75,0.5])
translate([9.716272205114365,-0.23163912352174487,16.260819137096405])
rotate([179.22343103198583,1.4586201209913403,-86.23844599643725])
cube([8.151660040020946,3.734822198748885,3.39377565309438],center=true);
//gt label: leg
color([1.0,0.5,0.0])
translate([-9.298951923847198,-3.240146152675152,-0.011123452932224609])
rotate([49.92089385170738,-89.9031598881691,-46.89887658552939])
cube([11.788705810904505,4.511452391743662,1.8045132607221623],center=true);
//gt label: leg
color([1.0,0.5,0.0])

```

```

translate([-7.960064038634299,-9.485773965716362,16.787424981594086])
rotate([170.8429596305874,0.6666024546997006,-89.0254424330423])
cube([6.344076693058118,6.037443019449822,2.0827306061983224],center=true);
//gt label: seat
color([0.0,0.5,1.0])
translate([3.399093803018332,-3.88543713837862,-0.09961893549188955])
rotate([90.40023292275849,0.0219841897348893,-0.764818915969135])
cube([11.326858624815944,6.033792272210123,1.496833413839341],center=true);

```

Task:

```

//gt label: ***
translate([2.9740624502301216,-3.8214775547385216,4.676979295909405])
rotate([48.991454332548564,89.84962237121421,-40.38957160626654])
cube([5.944863446056845,2.4114754982292657,0.5809047678485555],center=true);
//gt label: ***
translate([-3.4958427026867867,-2.4658922851085667,-0.011555958553799345])
rotate([-179.87435738316125,0.17214619344374193,-0.1073028669735464])
cube([14.646199643611912,3.5272586345672634,3.0887274257838744],center=true);
//gt label: ***
translate([2.6666569523513317,-3.648683577775955,-15.2097088098526])
rotate([99.60243246282673,-81.53295681944715,-8.493162511796692])
cube([5.2578878030181,2.996884845197213,0.3275234345346707],center=true);
//gt label: ***
translate([6.481567546725273,-3.873779661953449,-4.647144712507725])
rotate([173.34208878648465,84.45186140354788,-96.95115390985654])
cube([5.627899579703813,3.557060845196259,1.14821819588543],center=true);
//gt label: ***
translate([2.975103911012411,-3.8078416511416435,-4.661385454237461])
rotate([47.30279482263276,89.86604992485822,137.7311591465931])
cube([5.90829409658909,2.4130767211318025,0.5818469077348721],center=true);
//gt label: ***
translate([-17.439861744642258,4.058343805372715,0.06194746471010148])
rotate([0.3603979699975381,-0.41050285760381033,103.64422874165668])
cube([2.781330123543786,2.191038429737147,0.14844513149000793],center=true);
//gt label: ***
translate([6.480830758810043,-3.8918178528547287,4.650183245539665])
rotate([-173.87965615422672,-84.45812372469528,-96.51373201756485])
cube([5.633834451436998,3.5788333788514164,1.15461120381952],center=true);
//gt label: ***
translate([4.088809043169022,-3.7932689860463142,-10.431443303823471])
rotate([118.52024709354355,-85.50993289630408,150.1964690427789])
cube([4.502600282430759,4.446491710841766,0.5941733019426494],center=true);
//gt label: ***
translate([-17.030799388885498,0.1135369227267802,0.039311418076977134])
rotate([1.504735854888443,-0.8910460515539764,64.2993925632759])
cube([4.876379184424877,2.20578094944358,0.35494230221957024],center=true);
//gt label: ***
translate([4.098080359399319,-3.8107724115252495,10.418190136551857])
rotate([-58.7244183672916,-85.70800509331495,-32.428692893220024])
cube([4.487958364188948,4.443379007280153,0.5954402964562203],center=true);
//gt label: ***
translate([-13.871272504329681,-1.8559787981212141,0.029614210361614837])
rotate([139.56730956917485,0.6282807067036446,-8.081027930114278])
cube([4.343831501901157,2.434399109333779,2.3602771386504413],center=true);
//gt label: ***
translate([10.669450387358665,-2.730014566332102,-0.029037086933385737])

```

```

rotate([0.16200673988774242, -0.203938913393779, 0.09303678984283609])
cube([13.310545757412914,3.838756829500202,3.3505299314856574],center=true);
//gt label: ***
translate([-16.854973435401917, -1.8270086497068405, 3.154975026845932])
rotate([-100.76540340709951, 79.28596712731512, -11.788116532293104])
cube([4.287483207881452,1.8517297692596948,0.11259619146585866],center=true);
//gt label: ***
translate([-16.74896940588951, -1.8076939880847933, -3.172638062387705])
rotate([100.91012515470068, -75.7748431983143, -11.286440711293574])
cube([4.2876352369785575,1.8424689024687435,0.11376293026844068],center=true);
//gt label: ***
translate([2.6687964238226414, -3.6889594048261642, 15.20717144012451])
rotate([-99.75075158696876, 81.69817719279854, -8.666054939714511])
cube([5.23786913603545,2.981903627514853,0.328212995082151],center=true);

//gt label: ***
translate([18.170802891254425, -2.210857532918453, -0.04945462540490554])
rotate([-51.71227500620777, 89.96138128009756, 127.8807185530091])
cube([1.313095698133111,1.2585127446800708,0.8108676783740897],center=true);

```

Chair^{Cube} Answer: 5

```

//gt label: wing
translate([2.9740624502301216, -3.8214775547385216, 4.676979295909405])
rotate([48.991454332548564, 89.84962237121421, -40.38957160626654])
cube([5.944863446056845,2.4114754982292657,0.5809047678485555],center=true);

//gt label: body
translate([-3.4958427026867867, -2.4658922851085667, -0.011555958553799345])
rotate([-179.87435738316125, 0.17214619344374193, -0.1073028669735464])
cube([14.646199643611912,3.5272586345672634,3.0887274257838744],center=true);

//gt label: wing
translate([2.6666569523513317, -3.648683577775955, -15.2097088098526])
rotate([99.60243246282673, -81.53295681944715, -8.493162511796692])
cube([5.2578878030181,2.996884845197213,0.3275234345346707],center=true);

//gt label: engine
translate([6.481567546725273, -3.873779661953449, -4.647144712507725])
rotate([173.34208878648465, 84.45186140354788, -96.95115390985654])
cube([5.627899579703813,3.557060845196259,1.14821819588543],center=true);

//gt label: wing
translate([2.975103911012411, -3.8078416511416435, -4.661385454237461])
rotate([47.30279482263276, 89.86604992485822, 137.7311591465931])
cube([5.90829409658909,2.4130767211318025,0.5818469077348721],center=true);

//gt label: engine
translate([-17.439861744642258,4.058343805372715,0.06194746471010148])
rotate([0.3603979699975381, -0.41050285760381033, 103.64422874165668])
cube([2.781330123543786,2.191038429737147,0.14844513149000793],center=true);

//gt label: engine
translate([6.480830758810043, -3.8918178528547287, 4.650183245539665])
rotate([-173.87965615422672, -84.45812372469528, -96.51373201756485])
cube([5.633834451436998,3.5788333788514164,1.15461120381952],center=true);

```

```

//gt label: wing
translate([4.088809043169022,-3.7932689860463142,-10.431443303823471])
rotate([118.52024709354355,-85.50993289630408,150.1964690427789])
cube([4.502600282430759,4.446491710841766,0.5941733019426494],center=true);

//gt label: engine
translate([-17.030799388885498,0.1135369227267802,0.039311418076977134])
rotate([1.504735854888443,-0.8910460515539764,64.2993925632759])
cube([4.876379184424877,2.20578094944358,0.35494230221957024],center=true);

//gt label: wing
translate([4.098080359399319,-3.8107724115252495,10.418190136551857])
rotate([-58.7244183672916,-85.70800509331495,-32.428692893220024])
cube([4.487958364188948,4.443379007280153,0.5954402964562203],center=true);

//gt label: body
translate([-13.871272504329681,-1.8559787981212141,0.029614210361614837])
rotate([139.56730956917485,0.6282807067036446,-8.081027930114278])
cube([4.343831501901157,2.434399109333779,2.3602771386504413],center=true);

//gt label: body
translate([10.669450387358665,-2.730014566332102,-0.029037086933385737])
rotate([0.16200673988774242,-0.203938913393779,0.09303678984283609])
cube([13.310545757412914,3.838756829500202,3.3505299314856574],center=true);

//gt label: engine
translate([-16.854973435401917,-1.8270086497068405,3.154975026845932])
rotate([-100.76540340709951,79.28596712731512,-11.788116532293104])
cube([4.287483207881452,1.8517297692596948,0.11259619146585866],center=true);

//gt label: engine
translate([-16.74896940588951,-1.8076939880847933,-3.172638062387705])
rotate([100.91012515470068,-75.7748431983143,-11.286440711293574])
cube([4.2876352369785575,1.8424689024687435,0.11376293026844068],center=true);

//gt label: wing
translate([2.6687964238226414,-3.6889594048261642,15.20717144012451])
rotate([-99.75075158696876,81.69817719279854,-8.666054939714511])
cube([5.23786913603545,2.981903627514853,0.328212995082151],center=true);

//gt label: tail
translate([18.170802891254425,-2.210857532918453,-0.04945462540490554])
rotate([-51.71227500620777,89.96138128009756,127.8807185530091])
cube([1.313095698133111,1.2585127446800708,0.8108676783740897],center=true);

```

Chair^{Cube} Question: 6

The following code describes a model airplane.

The airplane is consist of four parts, namely wing, body, tail, and engine.

Please annotate the following code to classify every code block. Block is defined with the 'code' sentence.

Here are an annotation example, please comment the given code following the structure of example.

Notice 1, all annotation should start with '//gt label:'.add()

Notice 2, The given example is a chair, with its own parts; the test code is an

airplane. You should only learn the labelling structure and format from the example.

Please think step by step

Example:

```
$vpf=10;
//gt label: back
color ([1.0 ,0.0 ,1.0])
translate ([-10.102699026465416 ,10.26402935385704 , -3.6753161251544957])
rotate ([160.473313961177 , -89.20091550633077 , 25.857542120103997])
cube ([5.998089201748401 ,5.496873855590852 ,2.7275216579437362] ,center=true);
//gt label: leg
color ([1.0 ,0.5 ,0.0])
translate ([3.732927367091179 , -2.904376983642578 , -11.460498347878456])
rotate ([83.29877169048444 , -2.9336897478076938 , 1.7717028406932804])
cube ([8.382892608642582 ,6.155845820903782 ,1.735029611736539] ,center=true);
//gt label: back
color ([1.0 ,0.0 ,1.0])
translate ([-8.782793059945107 ,3.62139455974102 ,15.663894712924957])
rotate ([-87.40114929902032 , -7.852857001920019 , -78.83163723758284])
cube ([6.794895827770238 ,3.729214332997853 ,3.4905253723264247] ,center=true);
//gt label: back
color ([1.0 ,0.0 ,1.0])
translate ([-8.779593482613564 ,3.617325834929943 , -15.588458776473999])
rotate ([-93.00015151574158 , 7.7665248868069465 , -78.69589319770452])
cube ([6.850444637238985 ,3.7134024873376843 ,3.50097727030526] ,center=true);
//gt label: seat
color ([0.0 ,0.5 ,1.0])
translate ([-4.543414153158665 , -0.27427916182205075 ,0.037627230340149254])
rotate ([178.94347486588424 , -89.70424105439432 , -85.27071527446944])
cube ([18.423856347799305 ,2.1212632209062714 ,1.9406176172197025] ,center=true);
//gt label: arm
color ([0.5 ,0.75 ,0.5])
translate ([2.0733951590955257 ,5.066008232533932 ,17.023869156837463])
rotate ([91.7214319118549 , 0.3406500603276716 , -2.6203325374871493])
cube ([10.25913737714291 ,3.2277557812631787 ,2.7297904156149206] ,center=true);
//gt label: leg
color ([1.0 ,0.5 ,0.0])
translate ([11.340873166918755 , -3.8123963773250584 , -7.010739445686339])
rotate ([-72.88008516677385 , 87.58217744158522 , 108.78816565725081])
cube ([10.556101426482204 ,5.8197381719946915 ,1.9262613169848932] ,center=true);
//gt label: seat
color ([0.0 ,0.5 ,1.0])
translate ([3.5820095986127862 ,0.09064220765139909 ,6.1641668528318405])
rotate ([89.2104703042929 , 1.2608381063033902 , 1.192188387930374])
cube ([10.568408817052845 ,5.991361811757091 ,1.3266931846737864] ,center=true);
//gt label: leg
color ([1.0 ,0.5 ,0.0])
translate ([-2.5054448470473294 ,0.16689690761268183 , -15.275467336177828])
rotate ([-3.2440951788482777 , 4.097956676977613 , 2.330700434600856])
cube ([5.861916616559032 ,4.245237149298208 ,3.870627619326138] ,center=true);
//gt label: back
color ([1.0 ,0.0 ,1.0])
translate ([-10.208072811365128 ,9.639107808470726 ,11.658100113272667])
rotate ([55.425968601985545 , -86.39767308708605 , 130.754210961323])
cube ([6.383902989327948 ,4.814630374312455 ,2.755037285387574] ,center=true);
//gt label: leg
color ([1.0 ,0.5 ,0.0])
```

```

translate ([9.006593003869057, -9.398162588477135, -17.004275023937225])
rotate ([175.41442227635292, 4.080280343132463, 86.05785075879909])
cube ([5.964655913412629, 5.68107657134539, 2.5408555381000175], center=true);
//gt label: arm
color ([0.5, 0.75, 0.5])
translate ([2.109469901770353, 5.1393235474824905, -17.009077668190002])
rotate ([88.16578558433484, -0.3444949108333195, -2.480246085453709])
cube ([10.31251966953278, 3.205398693680834, 2.780237849801861], center=true);
//gt label: back
color ([1.0, 0.0, 1.0])
translate ([-10.107187777757645, 10.257183536887169, 3.705678097903729])
rotate ([156.88074195153723, -89.39487017508205, -150.53967334737442])
cube ([6.004906333982966, 5.507151186466243, 2.736380118876707], center=true);
//gt label: leg
color ([1.0, 0.5, 0.0])
translate ([-7.875424399971962, -9.505232870578766, -16.675046384334564])
rotate ([171.01609985432586, 0.45115233702222046, 91.66160109022213])
cube ([6.27911273390072, 6.107992306351841, 2.095006648451098], center=true);
//gt label: seat
color ([0.0, 0.5, 1.0])
translate ([-2.510064523667097, 0.1777876692358403, 15.309423506259918])
rotate ([-176.74110055873243, -4.028426752912393, 2.2137697851629663])
cube ([5.870751515030861, 4.2288897186518, 3.894701898098023], center=true);
//gt label: leg
color ([1.0, 0.5, 0.0])
translate ([-9.073779210448265, -3.024441655725241, 11.831634566187859])
rotate ([-75.36801761901683, -84.78445282937601, -102.87252122632346])
cube ([6.788535602390773, 5.643370486795908, 2.1411868184805107], center=true);
//gt label: leg
color ([1.0, 0.5, 0.0])
translate ([-2.1943599171936516, -4.719993695616722, -16.6744726896286])
rotate ([-179.46182458895439, -5.0304710846126115, -91.58291220300536])
cube ([7.197215631604195, 4.997781999409202, 1.748268026858577], center=true);
//gt label: seat
color ([0.0, 0.5, 1.0])
translate ([3.7228381261229515, -2.911844030022621, 11.474919393658638])
rotate ([-83.5367976237254, 2.8502622902619175, 1.7116861906056593])
cube ([8.384009674191478, 6.149354055523876, 1.7255898751318508], center=true);
//gt label: seat
color ([0.0, 0.5, 1.0])
translate ([11.328131407499313, -3.83534662425518, 6.951077654957772])
rotate ([-118.37347329569543, -87.84206385000935, 120.01609941712393])
cube ([10.536476969718937, 5.810016915202144, 1.9013191200792843], center=true);
//gt label: arm
color ([0.5, 0.75, 0.5])
translate ([9.712061285972595, -0.19002289976924655, -16.23546838760376])
rotate ([-179.51433457792652, -1.4935766439435625, -86.39202382403056])
cube ([8.155665248632433, 3.740893118083513, 3.364970646798648], center=true);
//gt label: leg
color ([1.0, 0.5, 0.0])
translate ([-7.134627178311349, -7.975289896130563, 0.007407343073282392])
rotate ([-113.26328268993919, 89.92967318796993, -19.235843135470493])
cube ([22.746100127696995, 2.2620815038681084, 1.6734210494905777], center=true);
//gt label: back
color ([1.0, 0.0, 1.0])
translate ([-9.64383751153946, 3.242398928850889, 5.937490239739418])
rotate ([124.50903327404203, -87.33166129176344, 61.70988229728158])
cube ([8.593223839998249, 5.110086016356947, 2.243097536265852], center=true);

```

```

//gt label: back
color ([1.0 ,0.0 ,1.0])
translate ([-9.075806811451912, -3.030961900949478, -11.81210845708847])
rotate ([74.63199509127305, 84.70028261516227, -103.73367047430244])
cube ([6.784284934401518, 5.653989166021347, 2.131040208041679], center=true);
//gt label: leg
color ([1.0 ,0.5 ,0.0])
translate ([9.148417711257935, -9.382099136710167, 17.11809605360031])
rotate ([-4.968020709148986, 3.798101773971535, -93.9014263833732])
cube ([5.967696905136167, 5.6704226508737205, 2.5351978838443894], center=true);
//gt label: back
color ([1.0 ,0.0 ,1.0])
translate ([-9.64007817208767, 3.267190121114254, -5.934619307518005])
rotate ([-58.06189424141626, -87.37441147770456, -115.7498893731446])
cube ([8.575739264488224, 5.12268476188183, 2.242436353117237], center=true);
//gt label: seat
color ([0.0 ,0.5 ,1.0])
translate ([3.579420596361161, 0.09449605946429077, -6.181386709213257])
rotate ([90.82251773382816, -1.341258449319268, 0.9928294024460265])
cube ([10.57185344398022, 6.003924496471884, 1.319888755679131], center=true);
//gt label: back
color ([1.0 ,0.0 ,1.0])
translate ([-10.203434079885483, 9.612127766013145, -11.622404009103775])
rotate ([-125.06479259978943, -86.46166676448571, -49.00506406620182])
cube ([6.388581469655048, 4.844061732292194, 2.758722249418512], center=true);
//gt label: leg
color ([1.0 ,0.5 ,0.0])
translate ([-2.1866322495043278, -4.720134250819683, 16.752963960170746])
rotate ([179.56690297683338, 4.785847731480057, -91.46430147580763])
cube ([7.22234591841698, 5.02015568315983, 1.7432807758450592], center=true);
//gt label: arm
color ([0.5 ,0.75 ,0.5])
translate ([9.716272205114365, -0.23163912352174487, 16.260819137096405])
rotate ([179.22343103198583, 1.4586201209913403, -86.23844599643725])
cube ([8.151660040020946, 3.734822198748885, 3.39377565309438], center=true);
//gt label: leg
color ([1.0 ,0.5 ,0.0])
translate ([-9.298951923847198, -3.240146152675152, -0.011123452932224609])
rotate ([49.92089385170738, -89.9031598881691, -46.89887658552939])
cube ([11.788705810904505, 4.511452391743662, 1.8045132607221623], center=true);
//gt label: leg
color ([1.0 ,0.5 ,0.0])
translate ([-7.960064038634299, -9.485773965716362, 16.787424981594086])
rotate ([170.8429596305874, 0.6666024546997006, -89.0254424330423])
cube ([6.344076693058118, 6.037443019449822, 2.0827306061983224], center=true);
//gt label: seat
color ([0.0 ,0.5 ,1.0])
translate ([3.399093803018332, -3.88543713837862, -0.09961893549188955])
rotate ([90.40023292275849, 0.0219841897348893, -0.764818915969135])
cube ([11.326858624815944, 6.033792272210123, 1.496833413839341], center=true);

```

Task:

```

//gt label: ***
translate ([1.788662485778332, -4.24810316413641, 4.329006001353264])
rotate ([5.257742675541998, -85.83462501802028, -98.78805930193221])
cube ([4.208869822323326, 3.552731908857825, 1.3579544238746193], center=true);

```

```

//gt label: ***
translate([-15.522877275943756,-1.9791559688746931,-0.027850332844536762])
rotate([-177.88706452954585,-51.650273502731835,79.08214167670563])
cube([2.970514353364778,2.878327351063629,2.7701754495502247],center=true);
//gt label: ***
translate([-18.50606679916382,-1.5162854548543692,3.581559658050537])
rotate([-121.4253857359514,71.25195714953539,-32.351150232989944])
cube([5.068529620766643,1.4543186407536397,0.12695063487629138],center=true);
//gt label: ***
translate([-5.248141549527645,-2.4729768000543118,14.026461839675903])
rotate([-110.65534389727655,69.0608673104898,-21.212035742382476])
cube([6.437081620097162,1.4740151166915916,0.3055525664240132],center=true);

//gt label: ***
translate([18.883921802043915,-3.377793747931719,-0.0054192187963053445])
rotate([-52.09877395163174,-89.8803221224425,-127.95469705893517])
cube([1.7406602203846013,1.6422848962247458,1.115490552037962],center=true);
//gt label: ***
translate([-17.680680751800537,-0.09093458065763116,-0.01035835164657329])
rotate([-0.12271285867400726,0.4463140169460616,76.286960688138])
cube([5.594065114855767,2.211204208433628,0.6109681120142345],center=true);
//gt label: ***
translate([-18.41372162103653,-1.5141951572149992,-3.6957982555031776])
rotate([117.77855361825083,-67.89409558375439,-27.545279549129397])
cube([5.076169185340406,1.4379124063998556,0.12569904560223977],center=true);
//gt label: ***
translate([-2.6840487122535706,-3.134591039270163,8.759698569774628])
rotate([-112.97692722512515,75.05406084693053,-21.641985213729217])
cube([4.461636841297151,2.7660100162029293,0.5161132244393295],center=true);
//gt label: ***
translate([-1.3676349073648455,-3.8242382556200023,4.198714606463909])
rotate([168.51254903240823,85.14183180245382,-101.15045847816913])
cube([4.160876572132112,2.247832566499712,0.7658232701942345],center=true);
//gt label: ***
translate([1.7925461940467355,-4.249418154358864,-4.342959076166153])
rotate([-173.46678831919925,-85.80540001321393,80.03467039580622])
cube([4.222032018005853,3.5428266599774396,1.3572934456169667],center=true);
//gt label: ***
translate([-2.6921517401933674,-3.1398325599730015,-8.746909275650978])
rotate([112.13637190067487,-75.12611967736886,-20.983249684429193])
cube([4.473304972052578,2.768377121537928,0.5180199397727886],center=true);
//gt label: ***
translate([-6.000542156398296,-2.798768598586321,-0.010049709017039275])
rotate([90.00454549265245,0.07107798946183885,-1.6802750977639527])
cube([14.244629740715032,3.8977949321270002,3.760322518646719],center=true);
//gt label: ***
translate([-1.375533966347575,-3.8190151751041412,-4.19157087802887])
rotate([-170.30973055281905,-85.3349746501877,-99.51727931068837])
cube([4.165925495326521,2.2408275492489347,0.7595643633976623],center=true);
//gt label: ***
translate([-19.0590101480484,3.899596743285656,-0.015259650099324062])
rotate([179.87360191101203,-0.1504050145781123,-82.24047650306181])
cube([2.9095115512609544,1.5957570262253378,0.17636689124628913],center=true);
//gt label: ***
translate([-5.248727947473526,-2.4745253659784794,-14.013840556144714])
rotate([109.89424263203908,-69.12760625537017,-20.417955850814955])
cube([6.435828916728497,1.4722913689911428,0.3030487219803177],center=true);
//gt label: ***

```



```

translate([9.872481897473335,-3.1046685576438904,-0.01761319261277086])
rotate([0.18251522455821348,-0.170573144795035,0.08616103231700017])
cube([14.553167670965198,3.7681866437196785,3.739449456334119],center=true);

```

Chair^{Cube} Answer: 6

```

//gt label: wing
translate([1.788662485778332,-4.24810316413641,4.329006001353264])
rotate([5.257742675541998,-85.83462501802028,-98.78805930193221])
cube([4.208869822323326,3.552731908857825,1.3579544238746193],center=true);
//gt label: body
translate([-15.522877275943756,-1.9791559688746931,-0.027850332844536762])
rotate([-177.88706452954585,-51.650273502731835,79.08214167670563])
cube([2.970514353364778,2.878327351063629,2.7701754495502247],center=true);
//gt label: tail
translate([-18.50606679916382,-1.5162854548543692,3.581559658050537])
rotate([-121.4253857359514,71.25195714953539,-32.351150232989944])
cube([5.068529620766643,1.4543186407536397,0.12695063487629138],center=true);
//gt label: engine
translate([-5.248141549527645,-2.4729768000543118,14.026461839675903])
rotate([-110.65534389727655,69.0608673104898,-21.212035742382476])
cube([6.437081620097162,1.4740151166915916,0.3055525664240132],center=true);

//gt label: wing
translate([18.883921802043915,-3.377793747931719,-0.0054192187963053445])
rotate([-52.09877395163174,-89.8803221224425,-127.95469705893517])
cube([1.7406602203846013,1.6422848962247458,1.115490552037962],center=true);
//gt label: body
translate([-17.680680751800537,-0.09093458065763116,-0.01035835164657329])
rotate([-0.12271285867400726,0.4463140169460616,76.286960688138])
cube([5.594065114855767,2.211204208433628,0.6109681120142345],center=true);
//gt label: tail
translate([-18.41372162103653,-1.5141951572149992,-3.6957982555031776])
rotate([117.77855361825083,-67.89409558375439,-27.545279549129397])
cube([5.076169185340406,1.4379124063998556,0.12569904560223977],center=true);
//gt label: engine
translate([-2.6840487122535706,-3.134591039270163,8.759698569774628])
rotate([-112.97692722512515,75.05406084693053,-21.641985213729217])
cube([4.461636841297151,2.7660100162029293,0.5161132244393295],center=true);
//gt label: wing
translate([-1.3676349073648455,-3.8242382556200023,4.198714606463909])
rotate([168.51254903240823,85.14183180245382,-101.15045847816913])
cube([4.160876572132112,2.247832566499712,0.7658232701942345],center=true);
//gt label: wing
translate([1.7925461940467355,-4.249418154358864,-4.342959076166153])
rotate([-173.46678831919925,-85.80540001321393,80.03467039580622])
cube([4.222032018005853,3.5428266599774396,1.3572934456169667],center=true);
//gt label: engine
translate([-2.6921517401933674,-3.1398325599730015,-8.746909275650978])
rotate([112.13637190067487,-75.12611967736886,-20.983249684429193])
cube([4.473304972052578,2.768377121537928,0.5180199397727886],center=true);
//gt label: body
translate([-6.000542156398296,-2.798768598586321,-0.010049709017039275])
rotate([90.00454549265245,0.07107798946183885,-1.6802750977639527])
cube([14.244629740715032,3.8977949321270002,3.760322518646719],center=true);
//gt label: wing
translate([-1.375533966347575,-3.8190151751041412,-4.19157087802887])

```

```

rotate([-170.30973055281905, -85.3349746501877, -99.51727931068837])
cube([4.165925495326521,2.2408275492489347,0.7595643633976623],center=true);
//gt label: engine
translate([-19.0590101480484,3.899596743285656,-0.015259650099324062])
rotate([179.87360191101203, -0.1504050145781123, -82.24047650306181])
cube([2.9095115512609544,1.5957570262253378,0.17636689124628913],center=true);
//gt label: engine
translate([-5.248727947473526,-2.4745253659784794,-14.013840556144714])
rotate([109.89424263203908, -69.12760625537017, -20.417955850814955])
cube([6.435828916728497,1.4722913689911428,0.3030487219803177],center=true);
//gt label: body
translate([9.872481897473335,-3.1046685576438904,-0.01761319261277086])
rotate([0.18251522455821348, -0.170573144795035, 0.08616103231700017])
cube([14.553167670965198,3.7681866437196785,3.739449456334119],center=true);

```

Chair^{Cube} Question: 7

The following code describes a model airplane.

The airplane is consist of four parts, namely wing, body, tail, and engine.

Please annotate the following code to classify every code block. Block is defined with the 'code' sentence.

Here are an annotation example, please comment the given code following the structure of example.

Notice 1, all annotation should start with '//gt label:'.add()

Notice 2, The given example is a chair, with its own parts; the test code is an airplane. You should only learn the labelling structure and format from the example.

Please think step by step

Example:

```

$vpf=10;
//gt label: back
color([1.0,0.0,1.0])
translate([-10.102699026465416,10.26402935385704,-3.6753161251544957])
rotate([160.473313961177, -89.20091550633077, 25.857542120103997])
cube([5.998089201748401,5.496873855590852,2.7275216579437362],center=true);
//gt label: leg
color([1.0,0.5,0.0])
translate([3.732927367091179,-2.904376983642578,-11.460498347878456])
rotate([83.29877169048444, -2.9336897478076938, 1.7717028406932804])
cube([8.382892608642582,6.155845820903782,1.735029611736539],center=true);
//gt label: back
color([1.0,0.0,1.0])
translate([-8.782793059945107,3.62139455974102,15.663894712924957])
rotate([-87.40114929902032, -7.852857001920019, -78.83163723758284])
cube([6.794895827770238,3.729214332997853,3.4905253723264247],center=true);
//gt label: back
color([1.0,0.0,1.0])
translate([-8.779593482613564,3.617325834929943,-15.588458776473999])
rotate([-93.00015151574158, 7.7665248868069465, -78.69589319770452])
cube([6.850444637238985,3.7134024873376843,3.50097727030526],center=true);
//gt label: seat
color([0.0,0.5,1.0])
translate([-4.543414153158665,-0.27427916182205075,0.037627230340149254])
rotate([178.94347486588424, -89.70424105439432, -85.27071527446944])

```

```

cube([18.423856347799305,2.1212632209062714,1.9406176172197025],center=true);
//gt label: arm
color([0.5,0.75,0.5])
translate([2.0733951590955257,5.066008232533932,17.023869156837463])
rotate([91.7214319118549, 0.3406500603276716, -2.6203325374871493])
cube([10.25913737714291,3.2277557812631787,2.7297904156149206],center=true);
//gt label: leg
color([1.0,0.5,0.0])
translate([11.340873166918755,-3.8123963773250584,-7.010739445686339])
rotate([-72.88008516677385, 87.58217744158522, 108.78816565725081])
cube([10.556101426482204,5.8197381719946915,1.9262613169848932],center=true);
//gt label: seat
color([0.0,0.5,1.0])
translate([3.5820095986127862,0.09064220765139909,6.1641668528318405])
rotate([89.2104703042929, 1.2608381063033902, 1.192188387930374])
cube([10.568408817052845,5.991361811757091,1.3266931846737864],center=true);
//gt label: leg
color([1.0,0.5,0.0])
translate([-2.5054448470473294,0.16689690761268183,-15.275467336177828])
rotate([-3.2440951788482777, 4.097956676977613, 2.330700434600856])
cube([5.861916616559032,4.245237149298208,3.870627619326138],center=true);
//gt label: back
color([1.0,0.0,1.0])
translate([-10.208072811365128,9.639107808470726,11.658100113272667])
rotate([55.425968601985545, -86.39767308708605, 130.754210961323])
cube([6.383902989327948,4.814630374312455,2.755037285387574],center=true);
//gt label: leg
color([1.0,0.5,0.0])
translate([9.006593003869057,-9.398162588477135,-17.004275023937225])
rotate([175.41442227635292, 4.080280343132463, 86.05785075879909])
cube([5.964655913412629,5.68107657134539,2.5408555381000175],center=true);
//gt label: arm
color([0.5,0.75,0.5])
translate([2.109469901770353,5.1393235474824905,-17.009077668190002])
rotate([88.16578558433484, -0.3444949108333195, -2.480246085453709])
cube([10.31251966953278,3.205398693680834,2.780237849801861],center=true);
//gt label: back
color([1.0,0.0,1.0])
translate([-10.107187777757645,10.257183536887169,3.705678097903729])
rotate([156.88074195153723, -89.39487017508205, -150.53967334737442])
cube([6.004906333982966,5.507151186466243,2.736380118876707],center=true);
//gt label: leg
color([1.0,0.5,0.0])
translate([-7.875424399971962,-9.505232870578766,-16.675046384334564])
rotate([171.01609985432586, 0.45115233702222046, 91.66160109022213])
cube([6.27911273390072,6.107992306351841,2.095006648451098],center=true);
//gt label: seat
color([0.0,0.5,1.0])
translate([-2.510064523667097,0.1777876692358403,15.309423506259918])
rotate([-176.74110055873243, -4.028426752912393, 2.2137697851629663])
cube([5.870751515030861,4.2288897186518,3.894701898098023],center=true);
//gt label: leg
color([1.0,0.5,0.0])
translate([-9.073779210448265,-3.024441655725241,11.831634566187859])
rotate([-75.36801761901683, -84.78445282937601, -102.87252122632346])
cube([6.788535602390773,5.643370486795908,2.1411868184805107],center=true);
//gt label: leg
color([1.0,0.5,0.0])

```

```

translate([-2.1943599171936516,-4.719993695616722,-16.6744726896286])
rotate([-179.46182458895439,-5.0304710846126115,-91.58291220300536])
cube([7.197215631604195,4.997781999409202,1.748268026858577],center=true);
//gt label: seat
color([0.0,0.5,1.0])
translate([3.7228381261229515,-2.911844030022621,11.474919393658638])
rotate([-83.5367976237254,2.8502622902619175,1.7116861906056593])
cube([8.384009674191478,6.149354055523876,1.7255898751318508],center=true);
//gt label: seat
color([0.0,0.5,1.0])
translate([11.328131407499313,-3.83534662425518,6.951077654957772])
rotate([-118.37347329569543,-87.84206385000935,120.01609941712393])
cube([10.536476969718937,5.810016915202144,1.9013191200792843],center=true);
//gt label: arm
color([0.5,0.75,0.5])
translate([9.712061285972595,-0.19002289976924655,-16.23546838760376])
rotate([-179.51433457792652,-1.4935766439435625,-86.39202382403056])
cube([8.155665248632433,3.740893118083513,3.364970646798648],center=true);
//gt label: leg
color([1.0,0.5,0.0])
translate([-7.134627178311349,-7.975289896130563,0.007407343073282392])
rotate([-113.26328268993919,89.92967318796993,-19.235843135470493])
cube([22.746100127696995,2.2620815038681084,1.6734210494905777],center=true);
//gt label: back
color([1.0,0.0,1.0])
translate([-9.64383751153946,3.242398928850889,5.937490239739418])
rotate([124.50903327404203,-87.33166129176344,61.70988229728158])
cube([8.593223839998249,5.110086016356947,2.243097536265852],center=true);
//gt label: back
color([1.0,0.0,1.0])
translate([-9.075806811451912,-3.030961900949478,-11.81210845708847])
rotate([74.63199509127305,84.70028261516227,-103.73367047430244])
cube([6.784284934401518,5.653989166021347,2.131040208041679],center=true);
//gt label: leg
color([1.0,0.5,0.0])
translate([9.148417711257935,-9.382099136710167,17.11809605360031])
rotate([-4.968020709148986,3.798101773971535,-93.9014263833732])
cube([5.967696905136167,5.6704226508737205,2.5351978838443894],center=true);
//gt label: back
color([1.0,0.0,1.0])
translate([-9.64007817208767,3.267190121114254,-5.934619307518005])
rotate([-58.06189424141626,-87.37441147770456,-115.7498893731446])
cube([8.575739264488224,5.12268476188183,2.242436353117237],center=true);
//gt label: seat
color([0.0,0.5,1.0])
translate([3.579420596361161,0.09449605946429077,-6.181386709213257])
rotate([90.82251773382816,-1.341258449319268,0.9928294024460265])
cube([10.57185344398022,6.003924496471884,1.319888755679131],center=true);
//gt label: back
color([1.0,0.0,1.0])
translate([-10.203434079885483,9.612127766013145,-11.622404009103775])
rotate([-125.06479259978943,-86.46166676448571,-49.00506406620182])
cube([6.388581469655048,4.844061732292194,2.758722249418512],center=true);
//gt label: leg
color([1.0,0.5,0.0])
translate([-2.1866322495043278,-4.720134250819683,16.752963960170746])
rotate([179.56690297683338,4.785847731480057,-91.46430147580763])
cube([7.22234591841698,5.02015568315983,1.7432807758450592],center=true);

```

```

//gt label: arm
color ([0.5 ,0.75 ,0.5])
translate ([9.716272205114365 , -0.23163912352174487 , 16.260819137096405])
rotate ([179.22343103198583 , 1.4586201209913403 , -86.23844599643725])
cube ([8.151660040020946 , 3.734822198748885 , 3.39377565309438] , center=true );
//gt label: leg
color ([1.0 ,0.5 ,0.0])
translate ([ -9.298951923847198 , -3.240146152675152 , -0.011123452932224609])
rotate ([49.92089385170738 , -89.9031598881691 , -46.89887658552939])
cube ([11.788705810904505 , 4.511452391743662 , 1.8045132607221623] , center=true );
//gt label: leg
color ([1.0 ,0.5 ,0.0])
translate ([ -7.960064038634299 , -9.485773965716362 , 16.787424981594086])
rotate ([170.8429596305874 , 0.6666024546997006 , -89.0254424330423])
cube ([6.344076693058118 , 6.037443019449822 , 2.0827306061983224] , center=true );
//gt label: seat
color ([0.0 ,0.5 ,1.0])
translate ([3.399093803018332 , -3.88543713837862 , -0.09961893549188955])
rotate ([90.40023292275849 , 0.0219841897348893 , -0.764818915969135])
cube ([11.326858624815944 , 6.033792272210123 , 1.496833413839341] , center=true );

```

Task:

```

//gt label: ***
translate ([ -0.07860784709919244 , -3.1628256291151047 , 4.195363819599152])
rotate ([ -173.73234439557632 , 77.8640133450877 , -84.83953194451486])
cube ([4.951052926480771 , 2.581791114062071 , 0.9215742629021417] , center=true );
//gt label: ***
translate ([ -13.754878044128418 , -1.4589551184326408 , 0.03167223767377428])
rotate ([ -130.5612156118152 , 1.1388244509399705 , -6.958652550439094])
cube ([2.460635807365352 , 2.3930746503175624 , 2.3262117616832976] , center=true );
//gt label: ***
translate ([ -16.616878658533096 , 3.770411349833012 , 0.05463805631734431])
rotate ([0.06876515030771553 , -0.08831176407319571 , 97.5747663466869])
cube ([2.4647250212729257 , 1.5671994257718742 , 0.14074128237552955] , center=true );
//gt label: ***
translate ([ -5.3131526336073875 , -2.1989681199193005 , 0.017225995106855407])
rotate ([90.06938876635326 , 0.09602302655894807 , -2.462319844903011])
cube ([12.416756451129913 , 3.3480105921626113 , 3.316315393894915] , center=true );
//gt label: ***
translate ([3.7751861289143567 , -3.4400390088558197 , -4.794585891067983])
rotate ([ -153.61629884770636 , -84.13249479045038 , 57.786741596795316])
cube ([5.168773345649248 , 3.9960995689034524 , 1.7041274439543503] , center=true );
//gt label: ***
translate ([8.878822177648544 , -2.4167807400226597 , 0.02409586915746332])
rotate ([179.79246555461484 , -0.21620657500465373 , -0.33374323508761633])
cube ([13.283169046044353 , 3.4864939376711903 , 3.396264463663107] , center=true );
//gt label: ***
translate ([ -4.394926801323891 , -1.2792529352009296 , 15.070446878671646])
rotate ([ -108.04407198002691 , 65.01144909189343 , -17.875282409222383])
cube ([7.178377956151968 , 1.498098615556976 , 0.3612455166876477] , center=true );

//gt label: ***
translate ([ -16.08968436717987 , -1.521627577021718 , 3.321653418242932])
rotate ([ -115.59567814619595 , 73.28218546640423 , -26.52712823939206])
cube ([5.262804366648199 , 1.4352577365934929 , 0.1354673760943259] , center=true );
//gt label: ***

```

```

translate([-4.391236305236816,-1.2839819211512804,-15.079670250415802])
rotate([107.8511410121114,-65.04627673784022,-17.647871779339702])
cube([7.169134914875031,1.4960507303476438,0.360361002385624],center=true);
//gt label: ***
translate([-15.925291329622269,-1.5076432563364506,-3.3586171828210354])
rotate([110.77806988286113,-68.15934253758837,-20.309029904131258])
cube([5.273761115968228,1.4222018793225337,0.1354826532769974],center=true);
//gt label: ***
translate([3.775234073400497,-3.440604917705059,4.806764200329781])
rotate([26.729296085762712,-83.92278461743443,-122.60319635134954])
cube([5.179474800825126,4.009479768574247,1.7138132546097058],center=true);
//gt label: ***
translate([17.356667816638947,-2.814698461443186,0.03309953695861624])
rotate([72.53444119050451,89.73536869578345,-107.8894826657378])
cube([1.7013720702379973,1.6735716443509072,1.1193613521755008],center=true);
//gt label: ***
translate([-0.07353749999310824,-3.1678919680416584,-4.189077354967594])
rotate([173.28404519156922,-77.98195523414104,-84.36781291750843])
cube([4.959690719842912,2.5697099231183533,0.9189965296536695],center=true);
//gt label: ***
translate([-1.278454065322876,-2.111927978694439,-9.177337661385536])
rotate([114.55364480684531,-70.30537153883601,-22.959150685791794])
cube([4.869928397238255,2.8752767294645345,0.6428824923932591],center=true);
//gt label: ***
translate([-1.2785014975816014,-2.1098932065069675,9.173748791217804])
rotate([-114.59611011215691,70.25127070173833,-22.933204052317848])
cube([4.858209043741231,2.8776821494102527,0.6448019109666414],center=true);
//gt label: ***
translate([-15.576755404472351,0.2548976545222104,0.01998864725464954])
rotate([0.5050914169017917,0.3444020031520882,67.53598836906558])
cube([5.254709944128993,1.9854571856558405,0.38667230634018807],center=true);

```

Chair^{Cube} Answer: 7

Sure, here are the annotated blocks for the airplane model.

```

//gt label: engine
translate([-0.07860784709919244,-3.1628256291151047,4.195363819599152])
rotate([-173.73234439557632,77.8640133450877,-84.83953194451486])
cube([4.951052926480771,2.581791114062071,0.9215742629021417],center=true);

//gt label: body
translate([-13.754878044128418,-1.4589551184326408,0.03167223767377428])
rotate([-130.5612156118152,1.1388244509399705,-6.958652550439094])
cube([2.460635807365352,2.3930746503175624,2.3262117616832976],center=true);

//gt label: tail
translate([-16.616878658533096,3.770411349833012,0.05463805631734431])
rotate([0.06876515030771553,-0.08831176407319571,97.5747663466869])
cube([2.4647250212729257,1.5671994257718742,0.14074128237552955],center=true);

//gt label: body
translate([-5.3131526336073875,-2.1989681199193005,0.017225995106855407])
rotate([90.06938876635326,0.09602302655894807,-2.462319844903011])
cube([12.416756451129913,3.3480105921626113,3.316315393894915],center=true);

//gt label: wing

```

```

translate([3.7751861289143567,-3.4400390088558197,-4.794585891067983])
rotate([-153.61629884770636, -84.13249479045038, 57.786741596795316])
cube([5.168773345649248,3.9960995689034524,1.7041274439543503],center=true);

//gt label: body
translate([8.878822177648544,-2.4167807400226597,0.02409586915746332])
rotate([179.79246555461484, -0.21620657500465373, -0.33374323508761633])
cube([13.283169046044353,3.4864939376711903,3.396264463663107],center=true);

//gt label: tail
translate([-4.394926801323891,-1.2792529352009296,15.070446878671646])
rotate([-108.04407198002691, 65.01144909189343, -17.875282409222383])
cube([7.178377956151968,1.498098615556976,0.3612455166876477],center=true);

//gt label: tail
translate([-16.08968436717987,-1.521627577021718,3.321653418242932])
rotate([-115.59567814619595, 73.28218546640423, -26.52712823939206])
cube([5.262804366648199,1.4352577365934929,0.1354673760943259],center=true);

//gt label: tail
translate([-4.391236305236816,-1.2839819211512804,-15.079670250415802])
rotate([107.8511410121114, -65.04627673784022, -17.647871779339702])
cube([7.169134914875031,1.4960507303476438,0.360361002385624],center=true);

//gt label: tail
translate([-15.925291329622269,-1.5076432563364506,-3.3586171828210354])
rotate([110.77806988286113, -68.15934253758837, -20.309029904131258])
cube([5.273761115968228,1.4222018793225337,0.1354826532769974],center=true);

//gt label: wing
translate([3.775234073400497,-3.440604917705059,4.806764200329781])
rotate([26.729296085762712, -83.92278461743443, -122.60319635134954])
cube([5.179474800825126,4.009479768574247,1.7138132546097058],center=true);

//gt label: engine
translate([17.356667816638947,-2.814698461443186,0.03309953695861624])
rotate([72.53444119050451, 89.73536869578345, -107.8894826657378])
cube([1.7013720702379973,1.6735716443509072,1.1193613521755008],center=true);

//gt label: engine
translate([-0.07353749999310824,-3.1678919680416584,-4.189077354967594])
rotate([173.28404519156922, -77.98195523414104, -84.36781291750843])
cube([4.959690719842912,2.5697099231183533,0.9189965296536695],center=true);

//gt label: wing
translate([-1.278454065322876,-2.111927978694439,-9.177337661385536])
rotate([114.55364480684531, -70.30537153883601, -22.959150685791794])
cube([4.869928397238255,2.8752767294645345,0.6428824923932591],center=true);

//gt label: wing
translate([-1.2785014975816014,-2.1098932065069675,9.173748791217804])
rotate([-114.59611011215691, 70.25127070173833, -22.933204052317848])
cube([4.858209043741231,2.8776821494102527,0.6448019109666414],center=true);

//gt label: engine
translate([-15.576755404472351,0.2548976545222104,0.01998864725464954])
rotate([0.5050914169017917, 0.3444020031520882, 67.53598836906558])
cube([5.254709944128993,1.9854571856558405,0.38667230634018807],center=true);

```

The following code describes a model airplane.

The airplane is consist of four parts, namely wing, body, tail, and engine.

Please annotate the following code to classify every code block. Block is defined with the 'code' sentence.

Here are an annotation example, please comment the given code following the structure of example.

Notice 1, all annotation should start with '//gt label:'.add()

Notice 2, The given example is a chair, with its own parts; the test code is an airplane. You should only learn the labelling structure and format from the example.

Please think step by step

Example:

```
$vpf=10;
//gt label: back
color ([1.0,0.0,1.0])
translate([-10.102699026465416,10.26402935385704,-3.6753161251544957])
rotate([160.473313961177, -89.20091550633077, 25.857542120103997])
cube([5.998089201748401,5.496873855590852,2.7275216579437362],center=true);
//gt label: leg
color ([1.0,0.5,0.0])
translate([3.732927367091179,-2.904376983642578,-11.460498347878456])
rotate([83.29877169048444, -2.9336897478076938, 1.7717028406932804])
cube([8.382892608642582,6.155845820903782,1.735029611736539],center=true);
//gt label: back
color ([1.0,0.0,1.0])
translate([-8.782793059945107,3.62139455974102,15.663894712924957])
rotate([-87.40114929902032, -7.852857001920019, -78.83163723758284])
cube([6.794895827770238,3.729214332997853,3.4905253723264247],center=true);
//gt label: back
color ([1.0,0.0,1.0])
translate([-8.779593482613564,3.617325834929943,-15.588458776473999])
rotate([-93.00015151574158, 7.7665248868069465, -78.69589319770452])
cube([6.850444637238985,3.7134024873376843,3.50097727030526],center=true);
//gt label: seat
color ([0.0,0.5,1.0])
translate([-4.543414153158665,-0.27427916182205075,0.037627230340149254])
rotate([178.94347486588424, -89.70424105439432, -85.27071527446944])
cube([18.423856347799305,2.1212632209062714,1.9406176172197025],center=true);
//gt label: arm
color ([0.5,0.75,0.5])
translate([2.0733951590955257,5.066008232533932,17.023869156837463])
rotate([91.7214319118549, 0.3406500603276716, -2.6203325374871493])
cube([10.25913737714291,3.2277557812631787,2.7297904156149206],center=true);
//gt label: leg
color ([1.0,0.5,0.0])
translate([11.340873166918755,-3.8123963773250584,-7.010739445686339])
rotate([-72.88008516677385, 87.58217744158522, 108.78816565725081])
cube([10.556101426482204,5.8197381719946915,1.9262613169848932],center=true);
//gt label: seat
color ([0.0,0.5,1.0])
translate([3.5820095986127862,0.09064220765139909,6.1641668528318405])
rotate([89.2104703042929, 1.2608381063033902, 1.192188387930374])
cube([10.568408817052845,5.991361811757091,1.3266931846737864],center=true);
//gt label: leg
```



```

color ([1.0 ,0.5 ,0.0])
translate ([-2.5054448470473294,0.16689690761268183,-15.275467336177828])
rotate ([-3.2440951788482777, 4.097956676977613, 2.330700434600856])
cube ([5.861916616559032,4.245237149298208,3.870627619326138],center=true);
//gt label: back
color ([1.0 ,0.0 ,1.0])
translate ([-10.208072811365128,9.639107808470726,11.658100113272667])
rotate ([55.425968601985545, -86.39767308708605, 130.754210961323])
cube ([6.383902989327948,4.814630374312455,2.755037285387574],center=true);
//gt label: leg
color ([1.0 ,0.5 ,0.0])
translate ([9.006593003869057,-9.398162588477135,-17.004275023937225])
rotate ([175.41442227635292, 4.080280343132463, 86.05785075879909])
cube ([5.964655913412629,5.68107657134539,2.5408555381000175],center=true);
//gt label: arm
color ([0.5 ,0.75 ,0.5])
translate ([2.109469901770353,5.1393235474824905,-17.009077668190002])
rotate ([88.16578558433484, -0.3444949108333195, -2.480246085453709])
cube ([10.31251966953278,3.205398693680834,2.780237849801861],center=true);
//gt label: back
color ([1.0 ,0.0 ,1.0])
translate ([-10.107187777757645,10.257183536887169,3.705678097903729])
rotate ([156.88074195153723, -89.39487017508205, -150.53967334737442])
cube ([6.004906333982966,5.507151186466243,2.736380118876707],center=true);
//gt label: leg
color ([1.0 ,0.5 ,0.0])
translate ([-7.875424399971962,-9.505232870578766,-16.675046384334564])
rotate ([171.01609985432586, 0.45115233702222046, 91.66160109022213])
cube ([6.27911273390072,6.107992306351841,2.095006648451098],center=true);
//gt label: seat
color ([0.0 ,0.5 ,1.0])
translate ([-2.510064523667097,0.1777876692358403,15.309423506259918])
rotate ([-176.74110055873243, -4.028426752912393, 2.2137697851629663])
cube ([5.870751515030861,4.2288897186518,3.894701898098023],center=true);
//gt label: leg
color ([1.0 ,0.5 ,0.0])
translate ([-9.073779210448265,-3.024441655725241,11.831634566187859])
rotate ([-75.36801761901683, -84.78445282937601, -102.87252122632346])
cube ([6.788535602390773,5.643370486795908,2.1411868184805107],center=true);
//gt label: leg
color ([1.0 ,0.5 ,0.0])
translate ([-2.1943599171936516,-4.719993695616722,-16.6744726896286])
rotate ([-179.46182458895439, -5.0304710846126115, -91.58291220300536])
cube ([7.197215631604195,4.997781999409202,1.748268026858577],center=true);
//gt label: seat
color ([0.0 ,0.5 ,1.0])
translate ([3.7228381261229515,-2.911844030022621,11.474919393658638])
rotate ([-83.5367976237254, 2.8502622902619175, 1.7116861906056593])
cube ([8.384009674191478,6.149354055523876,1.7255898751318508],center=true);
//gt label: seat
color ([0.0 ,0.5 ,1.0])
translate ([11.328131407499313,-3.83534662425518,6.951077654957772])
rotate ([-118.37347329569543, -87.84206385000935, 120.01609941712393])
cube ([10.536476969718937,5.810016915202144,1.9013191200792843],center=true);
//gt label: arm
color ([0.5 ,0.75 ,0.5])
translate ([9.712061285972595,-0.19002289976924655,-16.23546838760376])
rotate ([-179.51433457792652, -1.4935766439435625, -86.39202382403056])

```

```

cube([8.155665248632433,3.740893118083513,3.364970646798648],center=true);
//gt label: leg
color([1.0,0.5,0.0])
translate([-7.134627178311349,-7.975289896130563,0.007407343073282392])
rotate([-113.26328268993919,89.92967318796993,-19.235843135470493])
cube([22.746100127696995,2.2620815038681084,1.6734210494905777],center=true);
//gt label: back
color([1.0,0.0,1.0])
translate([-9.64383751153946,3.242398928850889,5.937490239739418])
rotate([124.50903327404203,-87.33166129176344,61.70988229728158])
cube([8.593223839998249,5.110086016356947,2.243097536265852],center=true);
//gt label: back
color([1.0,0.0,1.0])
translate([-9.075806811451912,-3.030961900949478,-11.81210845708847])
rotate([74.63199509127305,84.70028261516227,-103.73367047430244])
cube([6.784284934401518,5.653989166021347,2.131040208041679],center=true);
//gt label: leg
color([1.0,0.5,0.0])
translate([9.148417711257935,-9.382099136710167,17.11809605360031])
rotate([-4.968020709148986,3.798101773971535,-93.9014263833732])
cube([5.967696905136167,5.6704226508737205,2.5351978838443894],center=true);
//gt label: back
color([1.0,0.0,1.0])
translate([-9.64007817208767,3.267190121114254,-5.934619307518005])
rotate([-58.06189424141626,-87.37441147770456,-115.7498893731446])
cube([8.575739264488224,5.12268476188183,2.242436353117237],center=true);
//gt label: seat
color([0.0,0.5,1.0])
translate([3.579420596361161,0.09449605946429077,-6.181386709213257])
rotate([90.82251773382816,-1.341258449319268,0.9928294024460265])
cube([10.57185344398022,6.003924496471884,1.319888755679131],center=true);
//gt label: back
color([1.0,0.0,1.0])
translate([-10.203434079885483,9.612127766013145,-11.622404009103775])
rotate([-125.06479259978943,-86.46166676448571,-49.00506406620182])
cube([6.388581469655048,4.844061732292194,2.758722249418512],center=true);
//gt label: leg
color([1.0,0.5,0.0])
translate([-2.1866322495043278,-4.720134250819683,16.752963960170746])
rotate([179.56690297683338,4.785847731480057,-91.46430147580763])
cube([7.22234591841698,5.02015568315983,1.7432807758450592],center=true);
//gt label: arm
color([0.5,0.75,0.5])
translate([9.716272205114365,-0.23163912352174487,16.260819137096405])
rotate([179.22343103198583,1.4586201209913403,-86.23844599643725])
cube([8.151660040020946,3.734822198748885,3.39377565309438],center=true);
//gt label: leg
color([1.0,0.5,0.0])
translate([-9.298951923847198,-3.240146152675152,-0.011123452932224609])
rotate([49.92089385170738,-89.9031598881691,-46.89887658552939])
cube([11.788705810904505,4.511452391743662,1.8045132607221623],center=true);
//gt label: leg
color([1.0,0.5,0.0])
translate([-7.960064038634299,-9.485773965716362,16.787424981594086])
rotate([170.8429596305874,0.6666024546997006,-89.0254424330423])
cube([6.344076693058118,6.037443019449822,2.0827306061983224],center=true);
//gt label: seat
color([0.0,0.5,1.0])

```

```
translate([3.399093803018332,-3.88543713837862,-0.09961893549188955])
rotate([90.40023292275849, 0.0219841897348893, -0.764818915969135])
cube([11.326858624815944,6.033792272210123,1.496833413839341],center=true);
```

Task:

```
//gt label: ***
translate([0.4880200093612075,-2.885601185262203,-4.470735639333725])
rotate([-3.2670617126984935, -80.98235340254361, -88.4849278389839])
cube([4.582867138087751,2.5652199424803266,0.7969965087249888],center=true);
//gt label: ***
translate([-3.2160296663641934,-1.5422366373240946,-14.229494035243988])
rotate([106.24634760227764, -63.21570890706951, -11.959269467950147])
cube([8.041014820337296,1.4166125562042031,0.28260418912396074],center=true);
//gt label: ***
translate([0.14538773568347096,-2.3451469652354717,-9.795063436031342])
rotate([-138.12449044434152, 80.1568701146726, -48.521086282423894])
cube([5.146000124514106,2.927572280168537,0.5640799924731289],center=true);
//gt label: ***
translate([-16.721850037574768,1.0338530782610178,-0.026017392665380612])
rotate([0.49425234860228584, 0.14776270423852833, 71.35075479544959])
cube([4.3274287506938025,2.0662538893520894,0.38675008807331335],center=true);
//gt label: ***
translate([4.3768709897994995,-3.060211520642042,4.160130359232426])
rotate([-5.229159361927696, -81.16684911915515, -88.20017514034282])
cube([4.763805940747264,3.654159493744377,1.3818683754652792],center=true);
//gt label: ***
translate([0.48188690561801206,-2.8740322217345238,4.474218785762787])
rotate([176.95603396313686, -81.0974516047518, 91.15791240974234])
cube([4.590496048331262,2.5631251372396955,0.7960271183401371],center=true);
//gt label: ***
translate([-17.744829654693604,-0.430249976925552,-2.812629472464323])
rotate([109.54628278179611, -67.44821910385404, -18.676597301557255])
cube([4.80292577296496,1.3747275155037788,0.1127774303313393],center=true);
//gt label: ***
translate([-18.29918920993805,3.8204633444547653,-0.022211763862287633])
rotate([-0.03225921756317605, 0.06588269045209724, 94.89455426434833])
cube([1.9065870717168263,1.35996676050132,0.1350036438088867],center=true);
//gt label: ***
translate([10.0747437030077,-1.9083327427506447,-0.0006982492050154837])
rotate([-0.05892903135943894, -0.1617540173190407, 0.31280948186522095])
cube([13.750086873769764,3.3232675492763555,3.0810356140136745],center=true);
//gt label: ***
translate([-3.2276695221662526,-1.5527412947267292,14.28232640028])
rotate([-105.93359310550335, 63.28230851015245, -11.98841689226413])
cube([8.033440411090854,1.4101956784725238,0.2838211390189947],center=true);

//gt label: ***
translate([4.39149159938097,-3.0657284148037434,-4.154196307063103])
rotate([175.11500242405285, -81.1880658416691, 91.50513121070134])
cube([4.7588029131293315,3.6628702282905587,1.38086758553982],center=true);
//gt label: ***
translate([18.40419828891754,-2.1205524541437626,0.019635658536572023])
rotate([110.84692527689855, -89.96841412993534, -110.71131177578891])
cube([1.4589620847255034,1.4235505741089898,0.9601690620184421],center=true);
//gt label: ***
translate([-4.930363856256008,-1.9074390083551407,-0.016253249632427386])
```

```

rotate([-179.9438339975719, -0.03410166617695409, -2.913290948596023])
cube([13.805099278688434,3.2583341188728885,3.1610092706978397],center=true);
//gt label: ***
translate([-17.90530353784561, -0.4233527835458517, 2.74598540738225])
rotate([-113.68592610462156, 72.64425720741707, -23.812125606164575])
cube([4.84480548650027,1.3723911438137533,0.11228706222028623],center=true);
//gt label: ***
translate([0.1395721617154778, -2.352468129247427, 9.791966304183006])
rotate([139.33973604036166, -80.24403496634767, -49.73937798800217])
cube([5.137044750154021,2.92815847322345,0.5638726428151167],center=true);
//gt label: ***
translate([-14.301597625017164, -0.6934788310900333, -0.03058212809264662])
rotate([-128.50664852923367, 0.6251240203599325, -9.504609084128793])
cube([3.204482421278968,2.29870596900584,2.084826435893789],center=true);

```

Chair^{Cube} Answer: 8

```

//gt label: engine
translate([0.4880200093612075, -2.885601185262203, -4.470735639333725])
rotate([-3.2670617126984935, -80.98235340254361, -88.4849278389839])
cube([4.582867138087751,2.5652199424803266,0.7969965087249888],center=true);
//gt label: tail
translate([-3.2160296663641934, -1.5422366373240946, -14.229494035243988])
rotate([106.24634760227764, -63.21570890706951, -11.959269467950147])
cube([8.041014820337296,1.4166125562042031,0.28260418912396074],center=true);
//gt label: body
translate([0.14538773568347096, -2.3451469652354717, -9.795063436031342])
rotate([-138.12449044434152, 80.1568701146726, -48.521086282423894])
cube([5.146000124514106,2.927572280168537,0.5640799924731289],center=true);
//gt label: body
translate([-16.721850037574768,1.0338530782610178, -0.026017392665380612])
rotate([0.49425234860228584, 0.14776270423852833, 71.35075479544959])
cube([4.3274287506938025,2.0662538893520894,0.38675008807331335],center=true);
//gt label: wing
translate([4.3768709897994995, -3.060211520642042, 4.160130359232426])
rotate([-5.229159361927696, -81.16684911915515, -88.20017514034282])
cube([4.763805940747264,3.654159493744377,1.3818683754652792],center=true);
//gt label: engine
translate([0.48188690561801206, -2.8740322217345238, 4.474218785762787])
rotate([176.95603396313686, -81.0974516047518, 91.15791240974234])
cube([4.590496048331262,2.5631251372396955,0.7960271183401371],center=true);
//gt label: tail
translate([-17.744829654693604, -0.430249976925552, -2.812629472464323])
rotate([109.54628278179611, -67.44821910385404, -18.676597301557255])
cube([4.80292577296496,1.3747275155037788,0.1127774303313393],center=true);
//gt label: body
translate([-18.29918920993805,3.8204633444547653, -0.022211763862287633])
rotate([-0.03225921756317605, 0.06588269045209724, 94.89455426434833])
cube([1.9065870717168263,1.35996676050132,0.1350036438088867],center=true);
//gt label: body
translate([10.0747437030077, -1.9083327427506447, -0.0006982492050154837])
rotate([-0.05892903135943894, -0.1617540173190407, 0.31280948186522095])
cube([13.750086873769764,3.3232675492763555,3.0810356140136745],center=true);
//gt label: tail
translate([-3.2276695221662526, -1.5527412947267292, 14.28232640028])
rotate([-105.93359310550335, 63.28230851015245, -11.98841689226413])
cube([8.033440411090854,1.4101956784725238,0.2838211390189947],center=true);

```

```

//gt label: wing
translate([4.39149159938097,-3.0657284148037434,-4.154196307063103])
rotate([175.11500242405285,-81.1880658416691,91.50513121070134])
cube([4.7588029131293315,3.6628702282905587,1.38086758553982],center=true);
//gt label: engine
translate([18.40419828891754,-2.1205524541437626,0.019635658536572023])
rotate([110.84692527689855,-89.96841412993534,-110.71131177578891])
cube([1.4589620847255034,1.4235505741089898,0.9601690620184421],center=true);
//gt label: body
translate([-4.930363856256008,-1.9074390083551407,-0.016253249632427386])
rotate([-179.9438339975719,-0.03410166617695409,-2.913290948596023])
cube([13.805099278688434,3.2583341188728885,3.1610092706978397],center=true);
//gt label: tail
translate([-17.90530353784561,-0.4233527835458517,2.74598540738225])
rotate([-113.68592610462156,72.64425720741707,-23.812125606164575])
cube([4.84480548650027,1.3723911438137533,0.11228706222028623],center=true);
//gt label: body
translate([0.1395721617154778,-2.352468129247427,9.791966304183006])
rotate([139.33973604036166,-80.24403496634767,-49.73937798800217])
cube([5.137044750154021,2.92815847322345,0.5638726428151167],center=true);
//gt label: body
translate([-14.301597625017164,-0.6934788310900333,-0.03058212809264662])
rotate([-128.50664852923367,0.6251240203599325,-9.504609084128793])
cube([3.204482421278968,2.29870596900584,2.084826435893789],center=true);

```

Chair^{Cube} Question: 9

The following code describes a model airplane.

The airplane is consist of four parts, namely wing, body, tail, and engine.

Please annotate the following code to classify every code block. Block is defined with the 'code' sentence.

Here are an annotation example, please comment the given code following the structure of example.

Notice 1, all annotation should start with '//gt label:'.add()

Notice 2, The given example is a chair, with its own parts; the test code is an airplane. You should only learn the labelling structure and format from the example.

Please think step by step

Example:

```

$vpf=10;
//gt label: back
color([1.0,0.0,1.0])
translate([-10.102699026465416,10.26402935385704,-3.6753161251544957])
rotate([160.473313961177,-89.20091550633077,25.857542120103997])
cube([5.998089201748401,5.496873855590852,2.7275216579437362],center=true);
//gt label: leg
color([1.0,0.5,0.0])
translate([3.732927367091179,-2.904376983642578,-11.460498347878456])
rotate([83.29877169048444,-2.9336897478076938,1.7717028406932804])
cube([8.382892608642582,6.155845820903782,1.735029611736539],center=true);
//gt label: back
color([1.0,0.0,1.0])
translate([-8.782793059945107,3.62139455974102,15.663894712924957])

```

```

rotate([-87.40114929902032, -7.852857001920019, -78.83163723758284])
cube([6.794895827770238,3.729214332997853,3.4905253723264247],center=true);
//gt label: back
color([1.0,0.0,1.0])
translate([-8.779593482613564,3.617325834929943,-15.588458776473999])
rotate([-93.00015151574158, 7.7665248868069465, -78.69589319770452])
cube([6.850444637238985,3.7134024873376843,3.50097727030526],center=true);
//gt label: seat
color([0.0,0.5,1.0])
translate([-4.543414153158665,-0.27427916182205075,0.037627230340149254])
rotate([178.94347486588424, -89.70424105439432, -85.27071527446944])
cube([18.423856347799305,2.1212632209062714,1.9406176172197025],center=true);
//gt label: arm
color([0.5,0.75,0.5])
translate([2.0733951590955257,5.066008232533932,17.023869156837463])
rotate([91.7214319118549, 0.3406500603276716, -2.6203325374871493])
cube([10.25913737714291,3.2277557812631787,2.7297904156149206],center=true);
//gt label: leg
color([1.0,0.5,0.0])
translate([11.340873166918755,-3.8123963773250584,-7.010739445686339])
rotate([-72.88008516677385, 87.58217744158522, 108.78816565725081])
cube([10.556101426482204,5.8197381719946915,1.9262613169848932],center=true);
//gt label: seat
color([0.0,0.5,1.0])
translate([3.5820095986127862,0.09064220765139909,6.1641668528318405])
rotate([89.2104703042929, 1.2608381063033902, 1.192188387930374])
cube([10.568408817052845,5.991361811757091,1.3266931846737864],center=true);
//gt label: leg
color([1.0,0.5,0.0])
translate([-2.5054448470473294,0.16689690761268183,-15.275467336177828])
rotate([-3.2440951788482777, 4.097956676977613, 2.330700434600856])
cube([5.861916616559032,4.245237149298208,3.870627619326138],center=true);
//gt label: back
color([1.0,0.0,1.0])
translate([-10.208072811365128,9.639107808470726,11.658100113272667])
rotate([55.425968601985545, -86.39767308708605, 130.754210961323])
cube([6.383902989327948,4.814630374312455,2.755037285387574],center=true);
//gt label: leg
color([1.0,0.5,0.0])
translate([9.006593003869057,-9.398162588477135,-17.004275023937225])
rotate([175.41442227635292, 4.080280343132463, 86.05785075879909])
cube([5.964655913412629,5.68107657134539,2.5408555381000175],center=true);
//gt label: arm
color([0.5,0.75,0.5])
translate([2.109469901770353,5.1393235474824905,-17.009077668190002])
rotate([88.16578558433484, -0.3444949108333195, -2.480246085453709])
cube([10.31251966953278,3.205398693680834,2.780237849801861],center=true);
//gt label: back
color([1.0,0.0,1.0])
translate([-10.107187777757645,10.257183536887169,3.705678097903729])
rotate([156.88074195153723, -89.39487017508205, -150.53967334737442])
cube([6.004906333982966,5.507151186466243,2.736380118876707],center=true);
//gt label: leg
color([1.0,0.5,0.0])
translate([-7.875424399971962,-9.505232870578766,-16.675046384334564])
rotate([171.01609985432586, 0.45115233702222046, 91.66160109022213])
cube([6.27911273390072,6.107992306351841,2.095006648451098],center=true);
//gt label: seat

```

```

color ([0.0 ,0.5 ,1.0])
translate ([-2.510064523667097,0.1777876692358403,15.309423506259918])
rotate ([-176.74110055873243, -4.028426752912393, 2.2137697851629663])
cube ([5.870751515030861,4.2288897186518,3.894701898098023],center=true);
//gt label: leg
color ([1.0 ,0.5 ,0.0])
translate ([-9.073779210448265, -3.024441655725241,11.831634566187859])
rotate ([-75.36801761901683, -84.78445282937601, -102.87252122632346])
cube ([6.788535602390773,5.643370486795908,2.1411868184805107],center=true);
//gt label: leg
color ([1.0 ,0.5 ,0.0])
translate ([-2.1943599171936516, -4.719993695616722, -16.6744726896286])
rotate ([-179.46182458895439, -5.0304710846126115, -91.58291220300536])
cube ([7.197215631604195,4.997781999409202,1.748268026858577],center=true);
//gt label: seat
color ([0.0 ,0.5 ,1.0])
translate ([3.7228381261229515, -2.911844030022621,11.474919393658638])
rotate ([-83.5367976237254, 2.8502622902619175, 1.7116861906056593])
cube ([8.384009674191478,6.149354055523876,1.7255898751318508],center=true);
//gt label: seat
color ([0.0 ,0.5 ,1.0])
translate ([11.328131407499313, -3.83534662425518,6.951077654957772])
rotate ([-118.37347329569543, -87.84206385000935, 120.01609941712393])
cube ([10.536476969718937,5.810016915202144,1.9013191200792843],center=true);
//gt label: arm
color ([0.5 ,0.75 ,0.5])
translate ([9.712061285972595, -0.19002289976924655, -16.23546838760376])
rotate ([-179.51433457792652, -1.4935766439435625, -86.39202382403056])
cube ([8.155665248632433,3.740893118083513,3.364970646798648],center=true);
//gt label: leg
color ([1.0 ,0.5 ,0.0])
translate ([-7.134627178311349, -7.975289896130563,0.007407343073282392])
rotate ([-113.26328268993919, 89.92967318796993, -19.235843135470493])
cube ([22.746100127696995,2.2620815038681084,1.6734210494905777],center=true);
//gt label: back
color ([1.0 ,0.0 ,1.0])
translate ([-9.64383751153946,3.242398928850889,5.937490239739418])
rotate ([124.50903327404203, -87.33166129176344, 61.70988229728158])
cube ([8.593223839998249,5.110086016356947,2.243097536265852],center=true);
//gt label: back
color ([1.0 ,0.0 ,1.0])
translate ([-9.075806811451912, -3.030961900949478, -11.81210845708847])
rotate ([74.63199509127305, 84.70028261516227, -103.73367047430244])
cube ([6.784284934401518,5.653989166021347,2.131040208041679],center=true);
//gt label: leg
color ([1.0 ,0.5 ,0.0])
translate ([9.148417711257935, -9.382099136710167,17.11809605360031])
rotate ([-4.968020709148986, 3.798101773971535, -93.9014263833732])
cube ([5.967696905136167,5.6704226508737205,2.5351978838443894],center=true);
//gt label: back
color ([1.0 ,0.0 ,1.0])
translate ([-9.64007817208767,3.267190121114254, -5.934619307518005])
rotate ([-58.06189424141626, -87.37441147770456, -115.7498893731446])
cube ([8.575739264488224,5.12268476188183,2.242436353117237],center=true);
//gt label: seat
color ([0.0 ,0.5 ,1.0])
translate ([3.579420596361161,0.09449605946429077, -6.181386709213257])
rotate ([90.82251773382816, -1.341258449319268, 0.9928294024460265])

```

```

cube([10.57185344398022,6.003924496471884,1.319888755679131],center=true);
//gt label: back
color([1.0,0.0,1.0])
translate([-10.203434079885483,9.612127766013145,-11.622404009103775])
rotate([-125.06479259978943,-86.46166676448571,-49.00506406620182])
cube([6.388581469655048,4.844061732292194,2.758722249418512],center=true);
//gt label: leg
color([1.0,0.5,0.0])
translate([-2.1866322495043278,-4.720134250819683,16.752963960170746])
rotate([179.56690297683338,4.785847731480057,-91.46430147580763])
cube([7.22234591841698,5.02015568315983,1.7432807758450592],center=true);
//gt label: arm
color([0.5,0.75,0.5])
translate([9.716272205114365,-0.23163912352174487,16.260819137096405])
rotate([179.22343103198583,1.4586201209913403,-86.23844599643725])
cube([8.151660040020946,3.734822198748885,3.39377565309438],center=true);
//gt label: leg
color([1.0,0.5,0.0])
translate([-9.298951923847198,-3.240146152675152,-0.011123452932224609])
rotate([49.92089385170738,-89.9031598881691,-46.89887658552939])
cube([11.788705810904505,4.511452391743662,1.8045132607221623],center=true);
//gt label: leg
color([1.0,0.5,0.0])
translate([-7.960064038634299,-9.485773965716362,16.787424981594086])
rotate([170.8429596305874,0.6666024546997006,-89.0254424330423])
cube([6.344076693058118,6.037443019449822,2.0827306061983224],center=true);
//gt label: seat
color([0.0,0.5,1.0])
translate([3.399093803018332,-3.88543713837862,-0.09961893549188955])
rotate([90.40023292275849,0.0219841897348893,-0.764818915969135])
cube([11.326858624815944,6.033792272210123,1.496833413839341],center=true);

```

Task:

```

//gt label: ***
translate([-18.74084234237671,-0.7481788797304034,-0.018264323298353674])
rotate([-90.3367547922255,0.43941194456662264,-99.63211956933394])
cube([3.973097689449797,3.7492879107594534,2.205704525113123],center=true);
//gt label: ***
translate([1.5317558497190475,-3.245669398456812,6.315561607480049])
rotate([-98.99188665652265,-87.27987052351041,-170.13743604175312])
cube([4.055972397327425,3.1934785470366487,1.0127947945147766],center=true);
//gt label: ***
translate([-0.6478673359379171,-2.020597625523805,-0.02491513849236071])
rotate([89.93857628703189,0.0425459403879334,-0.3141172142512432])
cube([13.400581404566768,6.837305389344693,6.3146010786294955],center=true);
//gt label: ***
translate([-0.44552055187523365,-2.1844007819890976,9.866967871785164])
rotate([89.09857333755045,-3.7221445943485123,-0.5785436378204852])
cube([4.114125370979309,3.3347850851714647,0.3903822670690801],center=true);
//gt label: ***
translate([17.7198526263237,-2.0364367216825485,-0.012089737938367737])
rotate([-58.44085635399219,-89.6686644536583,-120.91141326043417])
cube([1.8085639551281938,0.9368238877505299,0.4937154147774409],center=true);
//gt label: ***
translate([-12.366350814700127,-1.2520739436149593,-0.11220551561564213])
rotate([-103.72396532612704,1.6194972180467142,-11.276210438047501])

```



```

cube([8.875710293650632,6.459756493568821,6.458946354687616],center=true);
//gt label: ***
translate([-1.2449732422828674,-1.9946955144405367,-5.819782018661499])
rotate([-164.40473879540548, 89.09340782190257, 107.06671287748098])
cube([3.559908829629422,1.6676128003746284,0.3743273438885852],center=true);
//gt label: ***
translate([-15.861476808786392,2.865815069526434,4.376514069736004])
rotate([-133.09915450770217, 78.93165406355163, -41.339716660841084])
cube([2.700395323336145,1.9595001637935963,0.22765314904973308],center=true);
//gt label: ***
translate([-16.244198381900787,3.9770762622356415,0.020410927536431714])
rotate([0.06403017678452493, -0.03616582926434156, 96.26688212727105])
cube([3.3333526924252554,3.012598548084502,0.8539620880037552],center=true);
//gt label: ***
translate([11.498518735170364,-2.830627914518118,-0.0202592762070708])
rotate([90.36767205214585, 0.4214890946225669, -2.104899036616709])
cube([10.211443677544596,6.481690071523192,5.458570308983333],center=true);
//gt label: ***
translate([-1.25363377854228,-1.992645375430584,14.331333041191101])
rotate([-65.03958423942369, -83.22311657857922, 154.3610847499535])
cube([4.595642089843752,3.310050237923865,0.38159024203196207],center=true);

//gt label: ***
translate([-15.94958320260048,2.9519770480692387,-4.418304860591888])
rotate([30.725227974659525, 79.88779494462318, 121.69880396065606])
cube([2.6238515414297883,1.9309438951313895,0.2226733253337557],center=true);
//gt label: ***
translate([-1.266733380034566,-1.9144604168832302,-14.349747002124786])
rotate([66.30480939509344, 82.91899031387888, 155.6666353114684])
cube([4.616140201687818,3.2956336997449456,0.3755966690369005],center=true);
//gt label: ***
translate([-1.2532225623726845,-2.019860427826643,5.814606472849846])
rotate([-27.956041599082944, -88.98093705785995, 119.3737218433035])
cube([3.563234210014345,1.6704856790602218,0.3831672878004618],center=true);
//gt label: ***
translate([1.5379204042255878,-3.227167949080467,-6.3172900676727295])
rotate([97.1262167923495, 87.25562385375517, -171.83780961415437])
cube([4.067838452756413,3.185176160186539,1.0079878475517063],center=true);
//gt label: ***
translate([-0.45887780375778675,-2.1787054277956486,-9.841369614005089])
rotate([-88.88397617834991, 3.8253918632044974, -0.9102185858638672])
cube([4.128761962056161,3.3460956811904916,0.3965248214080952],center=true);

```

Chair^{Cube} Answer: 9

```

//gt label: engine
translate([-18.74084234237671,-0.7481788797304034,-0.018264323298353674])
rotate([-90.3367547922255, 0.43941194456662264, -99.63211956933394])
cube([3.973097689449797,3.7492879107594534,2.205704525113123],center=true);

//gt label: wing
translate([1.5317558497190475,-3.245669398456812,6.315561607480049])
rotate([-98.99188665652265, -87.27987052351041, -170.13743604175312])
cube([4.055972397327425,3.1934785470366487,1.0127947945147766],center=true);

//gt label: body
translate([-0.6478673359379171,-2.020597625523805,-0.02491513849236071])

```

```

rotate([89.93857628703189, 0.0425459403879334, -0.3141172142512432])
cube([13.400581404566768,6.837305389344693,6.3146010786294955],center=true);

//gt label: wing
translate([-0.44552055187523365, -2.1844007819890976,9.866967871785164])
rotate([89.09857333755045, -3.7221445943485123, -0.5785436378204852])
cube([4.114125370979309,3.3347850851714647,0.3903822670690801],center=true);

//gt label: tail
translate([17.7198526263237,-2.0364367216825485,-0.012089737938367737])
rotate([-58.44085635399219, -89.6686644536583, -120.91141326043417])
cube([1.8085639551281938,0.9368238877505299,0.4937154147774409],center=true);

//gt label: body
translate([-12.366350814700127,-1.2520739436149593,-0.11220551561564213])
rotate([-103.72396532612704, 1.6194972180467142, -11.276210438047501])
cube([8.875710293650632,6.459756493568821,6.458946354687616],center=true);

//gt label: wing
translate([-1.2449732422828674,-1.9946955144405367,-5.819782018661499])
rotate([-164.40473879540548, 89.09340782190257, 107.06671287748098])
cube([3.559908829629422,1.6676128003746284,0.3743273438885852],center=true);

//gt label: engine
translate([-15.861476808786392,2.865815069526434,4.376514069736004])
rotate([-133.09915450770217, 78.93165406355163, -41.339716660841084])
cube([2.700395323336145,1.9595001637935963,0.22765314904973308],center=true);

//gt label: tail
translate([-16.244198381900787,3.9770762622356415,0.020410927536431714])
rotate([0.06403017678452493, -0.03616582926434156, 96.26688212727105])
cube([3.3333526924252554,3.012598548084502,0.8539620880037552],center=true);

//gt label: body
translate([11.498518735170364,-2.830627914518118,-0.0202592762070708])
rotate([90.36767205214585, 0.4214890946225669, -2.104899036616709])
cube([10.211443677544596,6.481690071523192,5.458570308983333],center=true);

//gt label: wing
translate([-1.25363377854228,-1.992645375430584,14.331333041191101])
rotate([-65.03958423942369, -83.22311657857922, 154.3610847499535])
cube([4.595642089843752,3.310050237923865,0.38159024203196207],center=true);

//gt label: engine
translate([-15.94958320260048,2.9519770480692387,-4.418304860591888])
rotate([30.725227974659525, 79.88779494462318, 121.69880396065606])
cube([2.6238515414297883,1.9309438951313895,0.2226733253337557],center=true);

//gt label: wing
translate([-1.266733380034566,-1.9144604168832302,-14.349747002124786])
rotate([66.30480939509344, 82.91899031387888, 155.6666353114684])
cube([4.616140201687818,3.2956336997449456,0.3755966690369005],center=true);

//gt label: wing
translate([-1.2532225623726845,-2.019860427826643,5.814606472849846])
rotate([-27.956041599082944, -88.98093705785995, 119.3737218433035])
cube([3.563234210014345,1.6704856790602218,0.3831672878004618],center=true);

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//gt label: wing
translate([1.5379204042255878,-3.227167949080467,-6.3172900676727295])
rotate([97.1262167923495, 87.25562385375517, -171.83780961415437])
cube([4.067838452756413,3.185176160186539,1.0079878475517063],center=true);

//gt label: wing
translate([-0.45887780375778675,-2.1787054277956486,-9.841369614005089])
rotate([-88.88397617834991, 3.8253918632044974, -0.9102185858638672])
cube([4.128761962056161,3.3460956811904916,0.3965248214080952],center=true);
```