```
{
 1
 2
       "nodes": [
                                                                                                                             a
         {"name": "a", "depth": 0}, {"name": "b", "depth": 1}, {"name": "c", "depth": 1}, {"name": "d", "depth": 2},
 3
                                                                                                                b
 5
          {"name": "e", "depth": 2}, {"name": "f", "depth": 2}
 6
 7
       "links": [
         {"source": 0, "target": 1},
 8
         {"source": 0, "target": 2},
 9
         {"source": 1, "target": 3}, 
{"source": 2, "target": 4}, 
{"source": 2, "target": 5}
10
11
12
13
14
       "constraintDefinitions": [
15
            "name": "layer",
16
            "sets": {"partition": "depth"}
17
                                                                                                             3 sets: [a], [b,c], [d,e,f]
            "forEach": [{ "constraint": "align", "axis": "x" }]
18
                                                                                                                     3 constraints
19
20
            "name": "sort",
21
            "sets": ["layer"],
22
                                                                                                                     1 set: "layer"
            "forEach": [{ "constraint": "order", "axis": "y", "by": "depth" }]
23
                                                                                                                      8 constraints
24
         }
25
26
    }
 1
 2
       "nodes": [
                                                                                                                             C
         {"name": "a", "_id": 0, "depth": 0}, {"name": "b", "_id": 1, "depth": 1}, {"name": "c", "_id": 2, "depth": 1}, {"name": "d", "_id": 3, "depth": 2},
 3
          {"name": "e", "_id": 4, "depth": 2}, {"name": "f", "_id": 5, "depth": 2},
 5
 6
            "name": "boundary0", "_id": 6, "cid": "set0_order", "temp": true,
 7
            "width": 1, "height": 1, "padding": 0, "fixed": true, "boundary": "y", "y": 0, "x": 0
 8
 9
                                                                                                             Two temporary nodes
10
                                                                                                           are added to the graph
11
                                                                                                           to act as boundaries for
            "name": "boundary1", "_id": 7, "cid": "set0_order", "temp": true,
12
                                                                                                              the order constraint.
            "width": 1, "height": 1, "padding": 0, "fixed": true,
13
            "boundary": "y", "y": 30, "x": 10
14
15
16
17
       "links": [...],
       "constraints": [
18
19
            "_type": "layer_align", "type": "alignment", "axis": "y",
20
21
            "offsets": [{"node": 0,"offset": 0}]
28
         },
                                                                                                                We generate three
29
                                                                                                              WebCoLa alignment
            "_type": "layer_align", "type": "alignment", "axis": "y",
30
                                                                                                               constraints: one for
            "offsets": [{"node": 1,"offset": 0},{"node": 2,"offset": 0}],
31
                                                                                                             each set produced by
32
                                                                                                               the SetCoLa "layer"
33
                                                                                                              constraint definition.
            "_type": "layer_align", "type": "alignment", "axis": "y",
34
            "offsets": [{"node": 3,"offset": 0},{"node": 4,"offset": 0},{"node": 5,"offset": 0}]
35
36
                                        "axis": "y",
                                                        "gap": 0, "left": 0, "right": 6},
          {"_type": "set0_order",
37
          {"_type": "set0_order",
                                        "axis": "y"
                                                        "gap": 0, "left": 6, "right": 1},
38
                                                                                                                We generate eight
                                       "axis": "y"
                                                                                   "right": 7},
         {"_type": "set0_order",
                                                        "gap": 0, "left": 1,
39
                                                                                                                WebCoLa position
                                                                                   "right": 2},
             type": "set0_order",
                                        "axis":
                                                  "y"
                                                        "gap": 0, "left": 6,
40
                                                                                                           constraints to order the
         {"_type": "set0_order", "axis": "y", "gap": 0, "left": 2, {"_type": "set0_order", "axis": "y", "gap": 0, "left": 7, {"_type": "set0_order", "axis": "y", "gap": 0, "left": 7, {"_type": "set0_order", "axis": "y", "gap": 0, "left": 7,
                                                                                   "right": 7},
41
                                                                                                            three layers based on
42
                                                                                   "right": 3},
                                                                                                                the SetCoLa "sort"
                                                                                   "right": 4},
43
                                                                                                              constraint definition.
          {"_type": "set0_order", "axis": "y", "gap": 0, "left": 7,
44
45
    }
46
```