# 附录1：较小规模多种箱型与物品数量数据信息

表F1-1 箱子尺寸实例数据

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 箱型数量 | 编号 | 箱子尺寸（） | 箱型数量 | 编号 | 箱子尺寸（） |
| 3种 | Box\_Type:0  Box\_Type:1  Box\_Type:2 | [19, 15, 13]  [14, 10, 10]  [18, 9, 6] | 7种 | Box\_Type:0  Box\_Type:1  Box\_Type:2  Box\_Type:3  Box\_Type:4  Box\_Type:5  Box\_Type:6 | [17, 11, 11]  [11, 8, 9]  [36, 12, 17]  [14, 18, 12]  [27, 22, 11]  [21, 12, 17]  [18, 9, 5] |
| 5种 | Box\_Type:0  Box\_Type:1  Box\_Type:2  Box\_Type:3  Box\_Type:4 | [18, 11, 5]  [19, 18, 19]  [10, 11, 9]  [23, 12, 12]  [27, 8, 8] |

表F1-2不规则物品3D点云实例数据

|  |  |  |
| --- | --- | --- |
| 物品数量 | 编号 | 3D点云（） |
| 7件 | 0 | [[3, 1, 1], [5, 2, 3], [2, 1, 3], [2, 1, 2], [3, 4, 3], [1, 4, 2], [1, 2, 3], [3, 1, 3], [3, 4, 4], [5, 3, 3],  [4, 4, 2], [4, 1, 2], [5, 2, 1], [3, 3, 3], [2, 1, 1], [5, 4, 3], [1, 3, 3], [3, 2, 2], [5, 2, 3], [2, 3, 4]] |
| 1 | [[4, 3, 3], [4, 1, 2], [1, 6, 1], [2, 7, 3], [1, 1, 3], [3, 4, 1], [2, 6, 1], [2, 7, 3], [3, 3, 1], [4, 6, 3],  [2, 6, 1], [2, 4, 1], [1, 1, 3], [3, 6, 3], [1, 3, 1], [4, 1, 2], [2, 5, 2], [3, 6, 3], [4, 5, 2], [2, 3, 1]] |
| 2 | [[4, 4, 1], [4, 3, 1], [3, 2, 3], [5, 3, 2], [1, 2, 4], [3, 2, 2], [2, 4, 4], [3, 1, 3], [4, 2, 4], [3, 2, 2],  [2, 3, 1], [5, 4, 4], [1, 1, 4], [5, 1, 3], [3, 3, 3], [4, 1, 4], [1, 3, 4], [1, 2, 4], [2, 1, 2], [2, 1, 1]] |
| 3 | [[1, 5, 2], [6, 7, 2], [1, 3, 3], [5, 6, 1], [7, 5, 3], [2, 2, 1], [6, 6, 2], [2, 5, 1], [1, 6, 1], [5, 5, 2],  [1, 3, 2], [4, 6, 1], [4, 1, 2], [3, 7, 1], [7, 4, 2], [7, 2, 3], [5, 7, 2], [6, 5, 3], [4, 5, 3], [4, 2, 2]] |
| 4 | [[2, 3, 2], [4, 1, 1], [4, 3, 3], [1, 5, 4], [1, 3, 4], [3, 3, 1], [4, 2, 3], [4, 1, 1], [2, 2, 3], [1, 2, 1],  [4, 2, 1], [3, 3, 1], [1, 3, 1], [1, 5, 2], [1, 5, 3], [1, 1, 2], [4, 4, 3], [2, 4, 1], [4, 2, 2], [3, 1, 3]] |
| 5 | [[2, 5, 3], [2, 6, 3], [1, 4, 2], [3, 1, 3], [2, 6, 2], [1, 1, 3], [2, 2, 1], [4, 1, 1], [1, 1, 2], [1, 2, 2],  [1, 4, 3], [2, 7, 2], [2, 1, 2], [4, 2, 3], [3, 2, 1], [2, 6, 2], [3, 5, 2], [2, 3, 1], [3, 6, 2], [4, 1, 2]] |
| 6 | [[4, 2, 3], [6, 3, 2], [3, 2, 2], [4, 4, 1], [2, 2, 2], [2, 3, 1], [2, 5, 3], [6, 5, 3], [3, 4, 1], [4, 1, 1],  [1, 3, 2], [2, 5, 2], [6, 4, 4], [3, 4, 1], [4, 5, 4], [3, 4, 3], [3, 1, 1], [2, 4, 2], [1, 5, 1], [5, 4, 1]] |
| 10件 | 0 | [[3, 4, 1], [2, 4, 1], [3, 6, 1], [5, 3, 1], [7, 5, 1], [2, 5, 1], [7, 4, 1], [5, 4, 1], [1, 4, 1], [2, 7, 1],  [6, 2, 1], [6, 6, 1], [1, 3, 1], [6, 1, 1], [3, 5, 1], [7, 4, 1], [7, 7, 1], [5, 3, 1], [7, 5, 1], [5, 3, 1]] |
| 1 | [[1, 2, 2], [1, 2, 2], [4, 5, 1], [4, 5, 2], [4, 3, 2], [3, 3, 2], [4, 5, 1], [3, 3, 4], [3, 2, 3], [3, 5, 2],  [4, 1, 3], [3, 3, 4], [1, 5, 1], [1, 5, 4], [3, 4, 4], [1, 7, 1], [3, 6, 2], [2, 7, 1], [3, 5, 1], [4, 6, 3]] |
| 2 | [[2, 2, 2], [2, 5, 3], [1, 1, 2], [2, 4, 3], [2, 3, 2], [4, 5, 1], [1, 1, 1], [3, 1, 1], [1, 1, 2], [1, 1, 2],  [3, 4, 2], [3, 4, 2], [4, 2, 1], [4, 2, 1], [3, 4, 2], [4, 5, 2], [4, 5, 4], [3, 1, 1], [3, 3, 3], [3, 2, 1]] |
| 3 | [[7, 6, 1], [7, 3, 1], [6, 2, 1], [1, 5, 1], [3, 4, 1], [5, 1, 1], [1, 4, 1], [4, 2, 1], [3, 5, 1], [4, 1, 1],  [7, 1, 1], [7, 5, 1], [4, 3, 1], [5, 5, 1], [3, 4, 1], [2, 1, 1], [3, 4, 1], [1, 2, 1], [2, 2, 1], [7, 3, 1]] |
| 4 | [[2, 6, 4], [5, 3, 2], [7, 2, 4], [2, 2, 2], [7, 2, 4], [4, 3, 3], [3, 6, 2], [4, 3, 4], [2, 2, 4], [1, 1, 3],  [4, 7, 1], [3, 2, 1], [6, 3, 2], [7, 7, 2], [7, 7, 4], [3, 4, 1], [2, 4, 4], [2, 7, 1], [2, 4, 1], [7, 2, 3]] |
| 5 | [[6, 3, 1], [3, 3, 1], [6, 3, 1], [2, 3, 1], [4, 1, 1], [3, 1, 1], [3, 4, 1], [2, 2, 1], [1, 4, 1], [6, 1, 1],  [7, 1, 1], [3, 1, 1], [6, 3, 1], [1, 4, 1], [2, 1, 1], [4, 3, 1], [3, 4, 1], [4, 1, 1], [7, 4, 1], [4, 2, 1]] |
| 6 | [[2, 2, 1], [4, 2, 1], [1, 1, 1], [4, 1, 1], [7, 4, 1], [1, 1, 1], [4, 3, 1], [6, 4, 1], [5, 2, 1], [3, 1, 1],  [6, 2, 1], [7, 4, 1], [7, 4, 1], [7, 4, 1], [6, 1, 1], [3, 3, 1], [7, 2, 1], [5, 3, 1], [5, 1, 1], [2, 4, 1]] |
| 7 | [[4, 4, 2], [4, 7, 1], [4, 3, 2], [4, 4, 2], [2, 7, 2], [2, 1, 2], [2, 3, 2], [2, 7, 2], [1, 1, 2], [2, 1, 2],  [3, 6, 2], [1, 4, 1], [3, 7, 1], [1, 5, 1], [3, 3, 1], [3, 6, 2], [2, 2, 1], [4, 3, 1], [3, 2, 1], [3, 7, 2]] |
| 8 | [[2, 5, 1], [3, 6, 3], [1, 7, 1], [3, 6, 2], [6, 6, 2], [6, 5, 1], [3, 5, 1], [4, 3, 2], [5, 4, 2], [6, 2, 3],  [2, 6, 1], [1, 4, 2], [7, 3, 3], [7, 7, 1], [4, 4, 1], [1, 1, 2], [6, 1, 3], [2, 4, 2], [6, 1, 1], [2, 5, 1]] |
| 9 | [[4, 4, 1], [3, 7, 1], [2, 3, 1], [4, 5, 1], [4, 2, 1], [1, 5, 1], [1, 1, 1], [7, 6, 1], [1, 2, 1], [5, 3, 1],  [1, 1, 1], [6, 2, 1], [4, 7, 1], [2, 2, 1], [5, 3, 1], [6, 5, 1], [5, 7, 1], [3, 4, 1], [2, 5, 1], [4, 5, 1]] |
| 23件 | 0 | [[5, 2, 4], [7, 6, 2], [1, 2, 2], [5, 2, 1], [5, 3, 2], [6, 5, 2], [6, 6, 4], [4, 5, 3], [3, 6, 3], [7, 7, 4],  [7, 6, 1], [4, 6, 1], [1, 4, 4], [5, 1, 4], [3, 2, 1], [7, 3, 4], [4, 3, 2], [1, 4, 2], [7, 4, 1], [1, 4, 3]] |
| 1 | [[2, 2, 2], [1, 6, 1], [2, 5, 2], [3, 3, 1], [4, 5, 1], [4, 7, 1], [5, 4, 1], [2, 3, 2], [1, 5, 2], [4, 4, 1],  [4, 6, 2], [2, 1, 1], [2, 2, 1], [4, 2, 2], [7, 3, 2], [1, 7, 2], [6, 2, 2], [5, 2, 2], [2, 4, 1], [5, 4, 2]] |
| 2 | [[2, 4, 3], [2, 4, 4], [2, 5, 3], [1, 7, 1], [2, 3, 2], [6, 6, 1], [1, 5, 3], [6, 6, 3], [6, 2, 1], [3, 4, 4],  [2, 4, 1], [2, 4, 3], [1, 6, 2], [1, 2, 3], [6, 1, 4], [4, 2, 2], [2, 2, 4], [7, 4, 2], [3, 4, 3], [2, 5, 2]] |
| 3 | [[7, 1, 1], [1, 7, 1], [5, 4, 1], [3, 1, 1], [7, 5, 1], [3, 2, 1], [1, 4, 1], [6, 2, 1], [4, 4, 1], [5, 4, 1],  [6, 5, 1], [6, 5, 1], [5, 5, 1], [2, 2, 1], [6, 7, 1], [3, 7, 1], [3, 7, 1], [7, 4, 1], [7, 7, 1], [4, 2, 1]] |
| 4 | [[1, 3, 1], [2, 2, 1], [3, 1, 1], [4, 4, 1], [4, 2, 1], [2, 1, 1], [3, 3, 1], [3, 3, 1], [2, 3, 1], [4, 1, 1],  [1, 1, 1], [2, 1, 1], [1, 2, 1], [2, 3, 1], [3, 1, 1], [2, 2, 1], [1, 3, 1], [2, 2, 1], [2, 3, 1], [2, 3, 1]] |
| 5 | [[3, 5, 3], [1, 6, 1], [1, 4, 2], [2, 3, 2], [2, 1, 1], [1, 6, 1], [1, 2, 3], [4, 2, 1], [4, 1, 1], [2, 1, 2],  [4, 4, 2], [4, 1, 2], [2, 2, 1], [3, 5, 2], [4, 6, 1], [4, 6, 1], [4, 2, 2], [3, 4, 1], [4, 1, 3], [3, 2, 2]] |
| 6 | [[2, 2, 1], [1, 4, 1], [4, 1, 1], [1, 3, 1], [2, 3, 1], [5, 1, 1], [3, 5, 1], [2, 6, 1], [2, 3, 1], [1, 1, 1],  [1, 6, 1], [1, 4, 1], [4, 4, 1], [3, 5, 1], [5, 7, 1], [3, 4, 1], [5, 3, 1], [1, 6, 1], [2, 5, 1], [2, 3, 1]] |
| 7 | [[4, 3, 2], [3, 3, 2], [7, 4, 1], [4, 1, 2], [3, 3, 1], [2, 3, 2], [4, 4, 2], [7, 2, 1], [7, 3, 2], [6, 4, 2],  [7, 1, 2], [1, 4, 1], [1, 1, 1], [3, 3, 2], [3, 3, 2], [5, 2, 1], [2, 1, 1], [3, 2, 2], [1, 2, 2], [6, 3, 2]] |
| 8 | [[7, 7, 1], [2, 7, 1], [7, 4, 1], [2, 3, 1], [6, 6, 1], [5, 7, 1], [5, 2, 1], [7, 4, 1], [6, 4, 1], [2, 2, 1],  [4, 2, 1], [3, 5, 1], [4, 4, 1], [2, 2, 1], [7, 6, 1], [2, 4, 1], [3, 6, 1], [6, 3, 1], [3, 3, 1], [5, 5, 1]] |
| 9 | [[3, 4, 3], [3, 3, 2], [2, 2, 3], [3, 4, 3], [3, 4, 3], [4, 1, 3], [4, 1, 2], [3, 3, 3], [2, 2, 2], [2, 2, 3],  [1, 1, 2], [1, 2, 3], [2, 1, 2], [4, 1, 4], [1, 4, 1], [2, 3, 3], [1, 1, 3], [4, 2, 3], [1, 2, 2], [2, 1, 3]] |
| 10 | [[2, 7, 1], [1, 7, 1], [4, 1, 1], [1, 2, 1], [6, 4, 1], [4, 6, 1], [3, 2, 1], [5, 1, 1], [3, 7, 1], [2, 2, 1],  [7, 1, 1], [7, 2, 1], [4, 5, 1], [5, 7, 1], [5, 3, 1], [1, 2, 1], [7, 1, 1], [3, 7, 1], [7, 7, 1], [6, 7, 1]] |
| 11 | [[4, 4, 1], [1, 3, 1], [4, 3, 1], [6, 4, 1], [4, 4, 1], [3, 3, 1], [2, 3, 1], [7, 3, 1], [5, 4, 1], [7, 1, 1],  [2, 3, 1], [3, 4, 1], [5, 4, 1], [5, 3, 1], [3, 4, 1], [7, 1, 1], [3, 3, 1], [5, 1, 1], [4, 1, 1], [1, 3, 1]] |
| 12 | [[4, 3, 1], [4, 1, 1], [3, 4, 1], [3, 2, 1], [2, 1, 1], [2, 3, 1], [2, 1, 1], [1, 4, 1], [4, 1, 1], [3, 3, 1],  [3, 2, 1], [1, 1, 1], [1, 3, 1], [1, 2, 1], [3, 3, 1], [3, 4, 1], [4, 1, 1], [1, 1, 1], [2, 1, 1], [3, 2, 1]] |
| 13 | [[6, 2, 2], [7, 2, 4], [2, 1, 3], [4, 5, 1], [2, 1, 3], [2, 3, 4], [6, 5, 4], [3, 1, 4], [2, 1, 1], [4, 2, 3],  [5, 3, 2], [6, 6, 2], [3, 6, 4], [4, 1, 4], [1, 5, 3], [1, 6, 2], [3, 1, 1], [6, 6, 3], [3, 2, 3], [7, 5, 2]] |
| 14 | [[2, 4, 1], [3, 3, 1], [2, 5, 1], [3, 2, 1], [2, 3, 1], [2, 5, 1], [3, 7, 1], [3, 6, 1], [2, 5, 1], [2, 6, 1],  [1, 2, 1], [4, 7, 1], [4, 2, 1], [4, 4, 1], [1, 2, 1], [1, 5, 1], [4, 7, 1], [2, 1, 1], [3, 4, 1], [1, 1, 1]] |
| 15 | [[6, 1, 1], [2, 5, 2], [7, 3, 2], [4, 5, 2], [3, 4, 2], [6, 5, 2], [7, 7, 2], [6, 1, 2], [2, 6, 2], [4, 7, 1],  [5, 3, 2], [2, 2, 2], [2, 3, 2], [3, 5, 1], [6, 4, 1], [1, 4, 2], [7, 6, 1], [1, 7, 1], [4, 5, 1], [4, 3, 1]] |
| 16 | [[2, 3, 1], [4, 4, 1], [4, 3, 1], [3, 2, 1], [7, 3, 1], [5, 3, 1], [3, 4, 1], [4, 2, 1], [6, 1, 1], [1, 2, 1],  [5, 1, 1], [5, 1, 1], [3, 2, 1], [1, 1, 1], [3, 2, 1], [3, 4, 1], [4, 3, 1], [6, 2, 1], [7, 3, 1], [6, 4, 1]] |
| 17 | [[5, 6, 1], [5, 4, 3], [2, 4, 1], [1, 6, 4], [5, 2, 1], [7, 6, 3], [3, 3, 2], [3, 1, 3], [3, 3, 2], [4, 2, 1],  [6, 1, 1], [6, 1, 3], [3, 3, 4], [5, 2, 3], [3, 3, 4], [7, 6, 2], [2, 4, 1], [1, 4, 1], [3, 1, 3], [5, 7, 3]] |
| 18 | [[5, 2, 1], [4, 2, 4], [1, 4, 3], [5, 4, 2], [2, 1, 4], [4, 3, 2], [2, 2, 3], [2, 1, 3], [2, 1, 4], [4, 2, 4],  [5, 3, 1], [1, 4, 4], [3, 1, 1], [1, 4, 2], [5, 1, 2], [2, 3, 2], [5, 3, 4], [2, 2, 1], [2, 3, 2], [3, 2, 4]] |
| 19 | [[1, 2, 2], [6, 4, 2], [7, 3, 1], [7, 2, 1], [4, 4, 1], [7, 4, 2], [6, 3, 2], [3, 2, 2], [7, 3, 2], [6, 4, 1],  [7, 1, 2], [7, 1, 1], [6, 3, 1], [4, 2, 1], [2, 4, 1], [2, 3, 2], [3, 4, 2], [5, 4, 2], [2, 3, 1], [2, 4, 1]] |
| 20 | [[2, 3, 1], [1, 6, 1], [2, 7, 1], [1, 1, 1], [1, 2, 1], [4, 3, 1], [1, 2, 1], [2, 5, 1], [3, 5, 1], [2, 2, 1],  [4, 4, 1], [1, 4, 1], [3, 5, 1], [3, 4, 1], [1, 3, 1], [4, 6, 1], [1, 1, 1], [2, 2, 1], [2, 3, 1], [2, 5, 1]] |
| 21 | [[4, 2, 1], [2, 4, 1], [1, 2, 2], [4, 2, 2], [1, 2, 4], [2, 3, 1], [1, 2, 3], [3, 1, 4], [3, 2, 1], [4, 2, 1],  [1, 1, 2], [3, 2, 3], [1, 2, 1], [1, 3, 4], [4, 4, 3], [1, 4, 2], [4, 4, 1], [1, 4, 1], [1, 4, 3], [1, 3, 4]] |
| 22 | [[5, 1, 2], [3, 4, 1], [5, 3, 4], [1, 3, 4], [2, 2, 4], [5, 3, 4], [5, 2, 4], [2, 2, 3], [5, 5, 2], [2, 4, 4],  [1, 3, 2], [5, 1, 4], [3, 5, 2], [1, 3, 2], [5, 3, 2], [4, 5, 4], [4, 4, 3], [4, 3, 1], [4, 5, 4], [5, 5, 3]] |

# 附录2：较大规模多种箱型与物品数量数据信息

表F2-1 箱子尺寸实例数据

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 箱型数量 | 编号 | 箱子尺寸（） | 箱型数量 | 编号 | 箱子尺寸（） |
| 9种 | Box\_Type:1  Box\_Type:2  Box\_Type:3  Box\_Type:4  Box\_Type:5  Box\_Type:6  Box\_Type:7  Box\_Type:8  Box\_Type:9 | [19, 15, 13]  [14, 10, 10]  [18, 9, 6]  [18, 11, 5]  [19, 18, 19]  [10, 11, 9]  [23, 12, 12]  [27, 8, 8]  [17, 11, 11] | 11种 | Box\_Type:1  Box\_Type:2  Box\_Type:3  Box\_Type:4  Box\_Type:5  Box\_Type:6  Box\_Type:7  Box\_Type:8  Box\_Type:9  Box\_Type:10  Box\_Type:11 | [10, 11, 9]  [23, 12, 12]  [27, 8, 8]  [17, 11, 11]  [17, 11, 11]  [11, 8, 9]  [36, 12, 17]  [14, 18, 12]  [27, 22, 11]  [21, 12, 17]  [18, 9, 5] |

表F2-2不规则物品3D点云实例数据

|  |  |  |
| --- | --- | --- |
| 物品数量 | 编号 | 3D点云（） |
| 30件 | 1 | [[3, 1, 1], [5, 2, 3], [2, 1, 3], [2, 1, 2], [3, 4, 3], [1, 4, 2], [1, 2, 3], [3, 1, 3], [3, 4, 4], [5, 3, 3],  [4, 4, 2], [4, 1, 2], [5, 2, 1], [3, 3, 3], [2, 1, 1], [5, 4, 3], [1, 3, 3], [3, 2, 2], [5, 2, 3], [2, 3, 4]] |
| 2 | [[4, 3, 3], [4, 1, 2], [1, 6, 1], [2, 7, 3], [1, 1, 3], [3, 4, 1], [2, 6, 1], [2, 7, 3], [3, 3, 1], [4, 6, 3],  [2, 6, 1], [2, 4, 1], [1, 1, 3], [3, 6, 3], [1, 3, 1], [4, 1, 2], [2, 5, 2], [3, 6, 3], [4, 5, 2], [2, 3, 1]] |
| 3 | [[4, 4, 1], [4, 3, 1], [3, 2, 3], [5, 3, 2], [1, 2, 4], [3, 2, 2], [2, 4, 4], [3, 1, 3], [4, 2, 4], [3, 2, 2],  [2, 3, 1], [5, 4, 4], [1, 1, 4], [5, 1, 3], [3, 3, 3], [4, 1, 4], [1, 3, 4], [1, 2, 4], [2, 1, 2], [2, 1, 1]] |
| 4 | [[1, 5, 2], [6, 7, 2], [1, 3, 3], [5, 6, 1], [7, 5, 3], [2, 2, 1], [6, 6, 2], [2, 5, 1], [1, 6, 1], [5, 5, 2],  [1, 3, 2], [4, 6, 1], [4, 1, 2], [3, 7, 1], [7, 4, 2], [7, 2, 3], [5, 7, 2], [6, 5, 3], [4, 5, 3], [4, 2, 2]] |
| 5 | [[2, 3, 2], [4, 1, 1], [4, 3, 3], [1, 5, 4], [1, 3, 4], [3, 3, 1], [4, 2, 3], [4, 1, 1], [2, 2, 3], [1, 2, 1],  [4, 2, 1], [3, 3, 1], [1, 3, 1], [1, 5, 2], [1, 5, 3], [1, 1, 2], [4, 4, 3], [2, 4, 1], [4, 2, 2], [3, 1, 3]] |
| 6 | [[2, 5, 3], [2, 6, 3], [1, 4, 2], [3, 1, 3], [2, 6, 2], [1, 1, 3], [2, 2, 1], [4, 1, 1], [1, 1, 2], [1, 2, 2],  [1, 4, 3], [2, 7, 2], [2, 1, 2], [4, 2, 3], [3, 2, 1], [2, 6, 2], [3, 5, 2], [2, 3, 1], [3, 6, 2], [4, 1, 2]] |
| 7 | [[4, 2, 3], [6, 3, 2], [3, 2, 2], [4, 4, 1], [2, 2, 2], [2, 3, 1], [2, 5, 3], [6, 5, 3], [3, 4, 1], [4, 1, 1],  [1, 3, 2], [2, 5, 2], [6, 4, 4], [3, 4, 1], [4, 5, 4], [3, 4, 3], [3, 1, 1], [2, 4, 2], [1, 5, 1], [5, 4, 1]] |
| 8 | [[3, 4, 1], [2, 4, 1], [3, 6, 1], [5, 3, 1], [7, 5, 1], [2, 5, 1], [7, 4, 1], [5, 4, 1], [1, 4, 1], [2, 7, 1],  [6, 2, 1], [6, 6, 1], [1, 3, 1], [6, 1, 1], [3, 5, 1], [7, 4, 1], [7, 7, 1], [5, 3, 1], [7, 5, 1], [5, 3, 1]] |
| 9 | [[1, 2, 2], [1, 2, 2], [4, 5, 1], [4, 5, 2], [4, 3, 2], [3, 3, 2], [4, 5, 1], [3, 3, 4], [3, 2, 3], [3, 5, 2],  [4, 1, 3], [3, 3, 4], [1, 5, 1], [1, 5, 4], [3, 4, 4], [1, 7, 1], [3, 6, 2], [2, 7, 1], [3, 5, 1], [4, 6, 3]] |
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| 31 | [[7, 1, 1], [1, 7, 1], [5, 4, 1], [3, 1, 1], [7, 5, 1], [3, 2, 1], [1, 4, 1], [6, 2, 1], [4, 4, 1], [5, 4, 1],  [6, 5, 1], [6, 5, 1], [5, 5, 1], [2, 2, 1], [6, 7, 1], [3, 7, 1], [3, 7, 1], [7, 4, 1], [7, 7, 1], [4, 2, 1]] |
| 32 | [[1, 3, 1], [2, 2, 1], [3, 1, 1], [4, 4, 1], [4, 2, 1], [2, 1, 1], [3, 3, 1], [3, 3, 1], [2, 3, 1], [4, 1, 1],  [1, 1, 1], [2, 1, 1], [1, 2, 1], [2, 3, 1], [3, 1, 1], [2, 2, 1], [1, 3, 1], [2, 2, 1], [2, 3, 1], [2, 3, 1]] |
| 33 | [[3, 5, 3], [1, 6, 1], [1, 4, 2], [2, 3, 2], [2, 1, 1], [1, 6, 1], [1, 2, 3], [4, 2, 1], [4, 1, 1], [2, 1, 2],  [4, 4, 2], [4, 1, 2], [2, 2, 1], [3, 5, 2], [4, 6, 1], [4, 6, 1], [4, 2, 2], [3, 4, 1], [4, 1, 3], [3, 2, 2]] |
| 34 | [[2, 2, 1], [1, 4, 1], [4, 1, 1], [1, 3, 1], [2, 3, 1], [5, 1, 1], [3, 5, 1], [2, 6, 1], [2, 3, 1], [1, 1, 1],  [1, 6, 1], [1, 4, 1], [4, 4, 1], [3, 5, 1], [5, 7, 1], [3, 4, 1], [5, 3, 1], [1, 6, 1], [2, 5, 1], [2, 3, 1]] |
| 35 | [[4, 3, 2], [3, 3, 2], [7, 4, 1], [4, 1, 2], [3, 3, 1], [2, 3, 2], [4, 4, 2], [7, 2, 1], [7, 3, 2], [6, 4, 2],  [7, 1, 2], [1, 4, 1], [1, 1, 1], [3, 3, 2], [3, 3, 2], [5, 2, 1], [2, 1, 1], [3, 2, 2], [1, 2, 2], [6, 3, 2]] |
| 36 | [[7, 7, 1], [2, 7, 1], [7, 4, 1], [2, 3, 1], [6, 6, 1], [5, 7, 1], [5, 2, 1], [7, 4, 1], [6, 4, 1], [2, 2, 1],  [4, 2, 1], [3, 5, 1], [4, 4, 1], [2, 2, 1], [7, 6, 1], [2, 4, 1], [3, 6, 1], [6, 3, 1], [3, 3, 1], [5, 5, 1]] |
| 37 | [[3, 4, 3], [3, 3, 2], [2, 2, 3], [3, 4, 3], [3, 4, 3], [4, 1, 3], [4, 1, 2], [3, 3, 3], [2, 2, 2], [2, 2, 3],  [1, 1, 2], [1, 2, 3], [2, 1, 2], [4, 1, 4], [1, 4, 1], [2, 3, 3], [1, 1, 3], [4, 2, 3], [1, 2, 2], [2, 1, 3]] |
| 38 | [[2, 7, 1], [1, 7, 1], [4, 1, 1], [1, 2, 1], [6, 4, 1], [4, 6, 1], [3, 2, 1], [5, 1, 1], [3, 7, 1], [2, 2, 1],  [7, 1, 1], [7, 2, 1], [4, 5, 1], [5, 7, 1], [5, 3, 1], [1, 2, 1], [7, 1, 1], [3, 7, 1], [7, 7, 1], [6, 7, 1]] |
| 39 | [[4, 4, 1], [1, 3, 1], [4, 3, 1], [6, 4, 1], [4, 4, 1], [3, 3, 1], [2, 3, 1], [7, 3, 1], [5, 4, 1], [7, 1, 1],  [2, 3, 1], [3, 4, 1], [5, 4, 1], [5, 3, 1], [3, 4, 1], [7, 1, 1], [3, 3, 1], [5, 1, 1], [4, 1, 1], [1, 3, 1]] |
| 40 | [[4, 3, 1], [4, 1, 1], [3, 4, 1], [3, 2, 1], [2, 1, 1], [2, 3, 1], [2, 1, 1], [1, 4, 1], [4, 1, 1], [3, 3, 1],  [3, 2, 1], [1, 1, 1], [1, 3, 1], [1, 2, 1], [3, 3, 1], [3, 4, 1], [4, 1, 1], [1, 1, 1], [2, 1, 1], [3, 2, 1]] |