```
ln[284] := n = 100;
In[285]:= try[values_] := (confList = {};
       For[c = 1, c <= Length[config], c++,</pre>
         sum = {};
        For [v = 1, v \le Length[values], v++,
          s = config[[c]].values[[v]];
         If[!MemberQ[sum, s],
           AppendTo[sum, s], Goto[break]
         ]
        ];
        AppendTo[confList, config[[c]]];
        Label[break];
       Print["Valid conformations: ", Length[confList]])
     vi = \{0, 1, 2\};
     values = Flatten[Table[{vi[[i]], vi[[j]], vi[[k]], vi[[l]], vi[[m]]},
          \{i, 3\}, \{j, 3\}, \{k, 3\}, \{1, 3\}, \{m, 3\}, \{4\};
     Print["Cases of coins in 5 bags: ", Length[values]]
     config = Flatten[
         Table[\{i, j, k, l, m\}, \{i, 1\}, \{j, 2i, 10\}, \{k, 2j, n\}, \{l, 2k, n\}, \{m, 2l, n\}], 4];
     Print["Possible conformations for 5 bags: ", Length[config]]
     try[values]
     Print["First 10 conformations: \n", Grid@confList[[1;; 10]]]
     MemberQ[confList, {1, 3, 9, 27, 81}]
     Cases of coins in 5 bags: 243
     Possible conformations for 5 bags: 46326
     Valid conformations: 196
     First 10 conformations:
     1 3 9 27 81
     1 3 9 27 82
     1 3 9 27 83
     1 3 9 27 84
     1 3 9 27 85
     1 3 9 27 86
     1 3 9 27 87
     1 3 9 27 88
     1 3 9 27 89
     1 3 9 27 90
     True
     vi = \{0, 1, 4\};
     values = Flatten[
         Table[{vi[[i]], vi[[j]], vi[[k]], vi[[1]]}, {i, 3}, {j, 3}, {k, 3}, {1, 3}], 3];
     Print["Cases of coins in 4 bag: ", Length[values]]
     config = Flatten[Table[{i, j, k, l}, {i, l}, {j, 2i, 10}, {k, 2j, n}, {l, 2k, n}], 3];
     Print["Possible conformations for 4 bags: ", Length[config]]
     try[values]
     Print["First 10 conformations: \n", Grid@confList[[1;; 10]]]
     MemberQ[confList, {1, 2, 10, 100}]
```

```
Cases of coins in 4 bag: 81

Possible conformations for 4 bags: 13929

Valid conformations: 2066

First 10 conformations:

1 2 13 26
1 2 13 65
1 2 13 66
1 2 13 67
1 2 13 68
1 2 13 69
1 2 13 70
1 2 13 71
1 2 13 72
1 2 13 73

False
```

Some possible conformations are ommitted when using current sampling method.

Using complete conformations still derives null answer.