

coin	label 1	label 2
1	001	221
2	002	220
3	010	212
4	011	211
5	012	210
6	020	202
7	021	201
8	022	200
9	100	122
10	101	121
11	102	120
12	110	112

Experiments:

- 1) 1, 3, 4, 5 \times 2, 6, 7, 8
- 2) 1, 6, 7, 8 \times 2, 9, 10, 11
- 3) 2, 3, 8, 11 \times 5, 6, 9, 12

Solution:

the coin labelled $a_1a_2a_3$,
 where a_i is the outcome of
 i -th experiment.