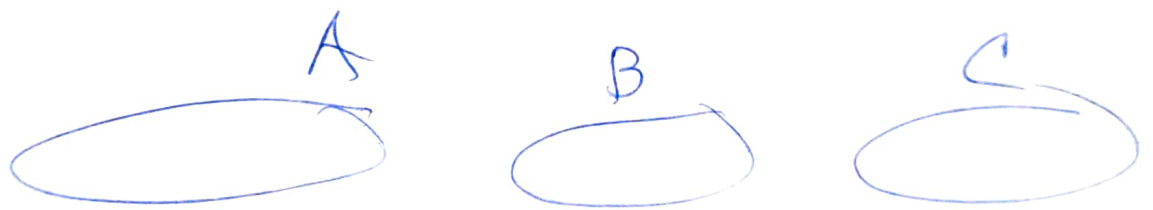


There are 3^n coins.

One of the coin has less weight than all other coins.

Thus $3^n - 1$ coins ~~are~~ have identical weight —

Here is an algorithm to find the "coin with less weight".



Split in ~~to~~ to 3

equal groups

if $A = B$ then 'less weight coin is in C'

if $A < B$ then 'less weight coin is in A'
otherwise 'less weight coin is in B'