

Lighter or Heavier?



1. $n > 2$ identical coins
2. Exactly one coin is lighter or heavier(fake coin)
Remaining $(n-1)$ coins have exact weight(Genuine)
3. Balance with no weights
4. You should find whether the fake coin is
Lighter or Heavier compared to Genuine coin

1. Give an algorithm (Use figures/pseudo code) to solve the above program

2. Animate using the above algorithm, how you will **identify lighter or heavier** for the following cases

1	0	1	2	3	4	5	6	7
	2	2	100	2	2	2	2	2

2	0	1	2	3	4
	2	2	2	2	100

3	0	1	2	3	4	5	6
	2	2	2	2	2	2	1

4	0	1	2	3
	2	1	2	2

Time complexity :
Space complexity: