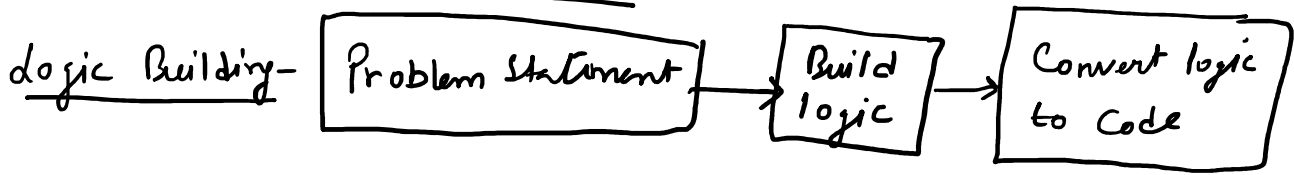


Programming Fundamentals



① Shop. Toffees sell. 1 Toffee = Re 1. Scheme = 3 wrappers = 1 toffee.
Rs 30 in pocket. Maximum - toffee that you can eat?

Ans (45) (43) (42)

Rs 30 \rightarrow 30 chocolates \rightarrow 30 wrappers

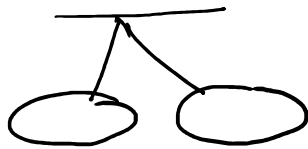
$\frac{30}{3} = 10$ chocolates/toffee \rightarrow 10 wrappers

$\frac{10}{3} = 3$ chocolates \rightarrow 3 wrappers + 1 wrapper = 4

$\frac{4}{3} = 1$ toffee \rightarrow 1 wrapper + 1 wrapper = 2

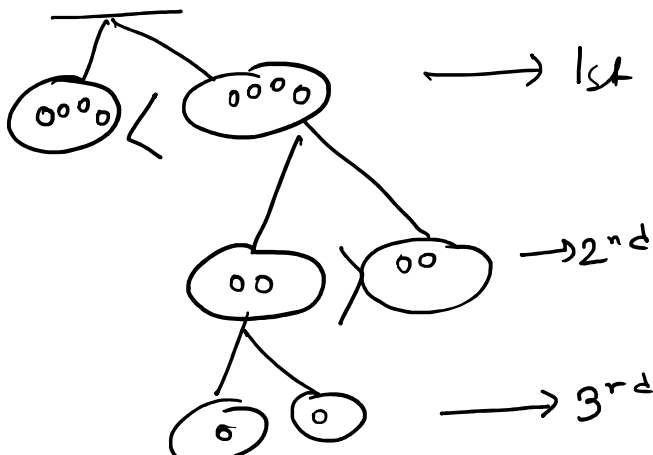
② //

① ① ① ① ① ① ① ①.1



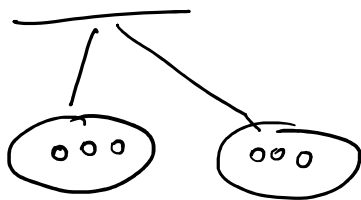
\rightarrow Minimum steps to find heaviest coin?

Ans (3)



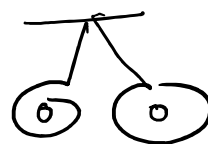
6 0 \rightarrow 3

0 0 0 0 0 0 0 1



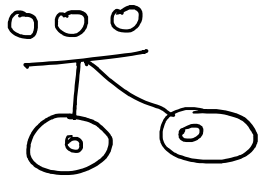
\rightarrow 1st step

① == Eliminate 6 coins



\rightarrow 2nd.

② One side is heavy. 3 coins + 2 coins (Eliminated)



\rightarrow == 3rd coin heavy
 \rightarrow > with answer.

\rightarrow 2nd.