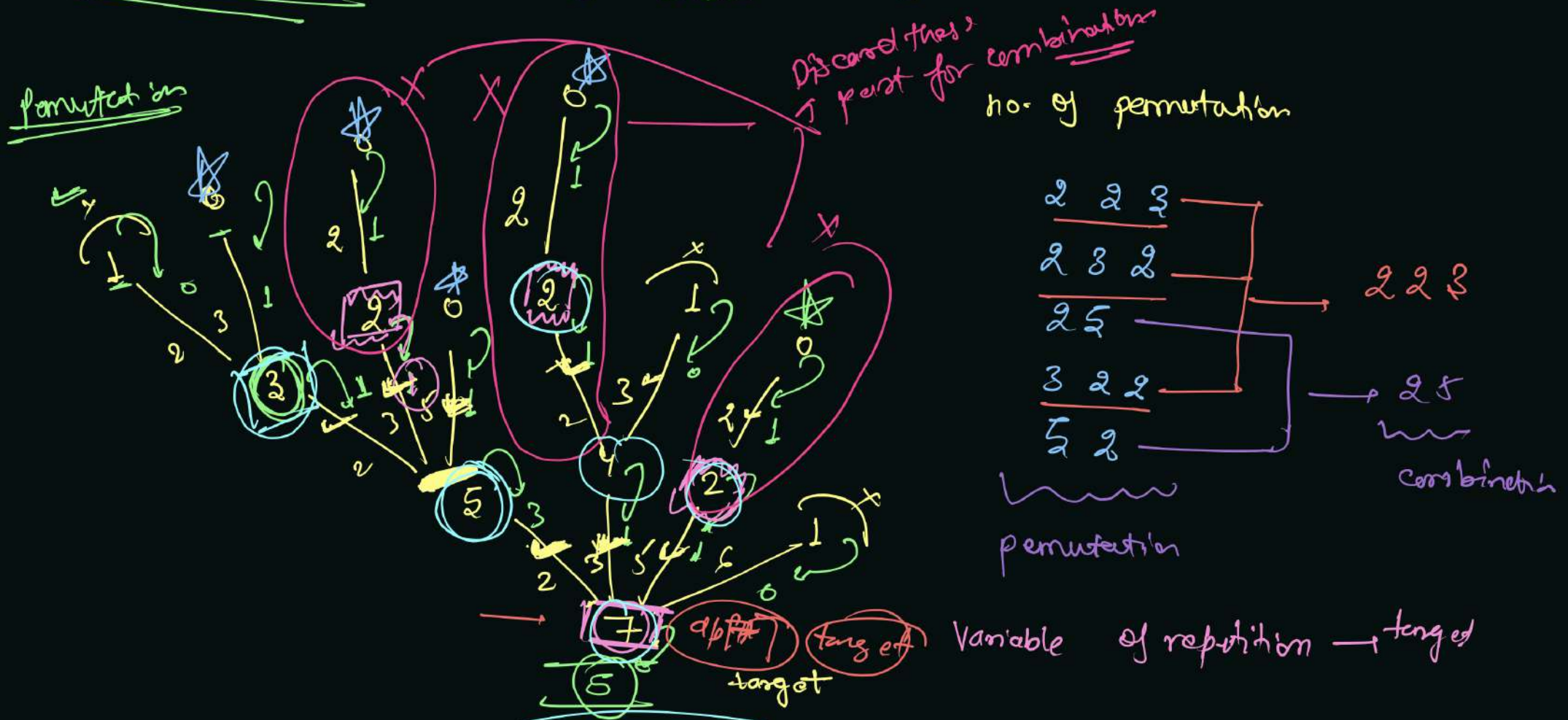


Coin Change Permutation

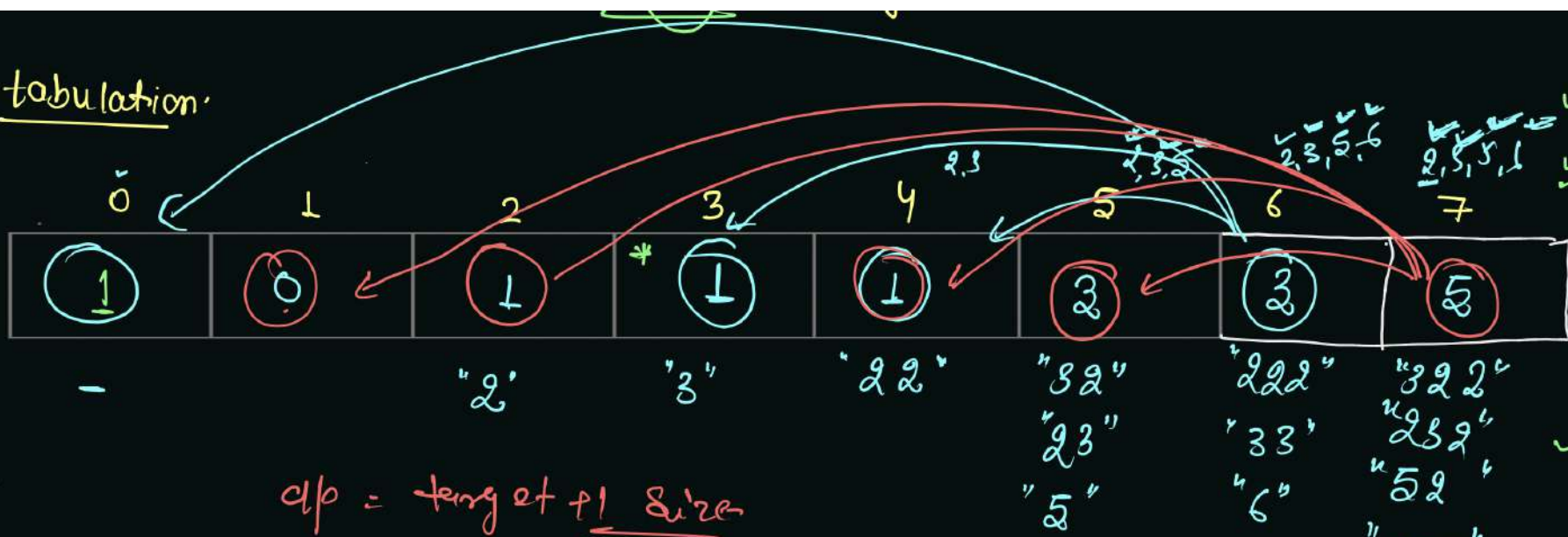
Saturday, 26 June 2021 6:55 PM

coins $\rightarrow \{ \underline{2}, 3, 5, 6 \}$ infinite, target = 7

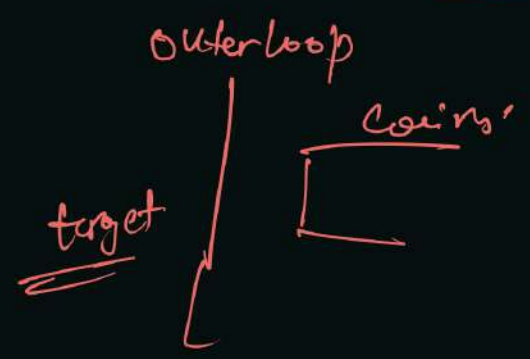
no. of permutation, to pay 7 rupees using infinite coins of "coin array".



tabulation:



2, 3, 5, 6



Repetition → target
 storage = target + 1
 Order of
 Solving the
 problem
 0 → target
 Meaning of
 cell
 prerequisite
 $dp[0] = 1$

$dp[i]$ → No. of permutation to
 pay 'i' target using
 coins

Coin Change Combination

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6 → 2, 2, 2

target = 6

2 2 2
3 3

→ some coin

Infinite

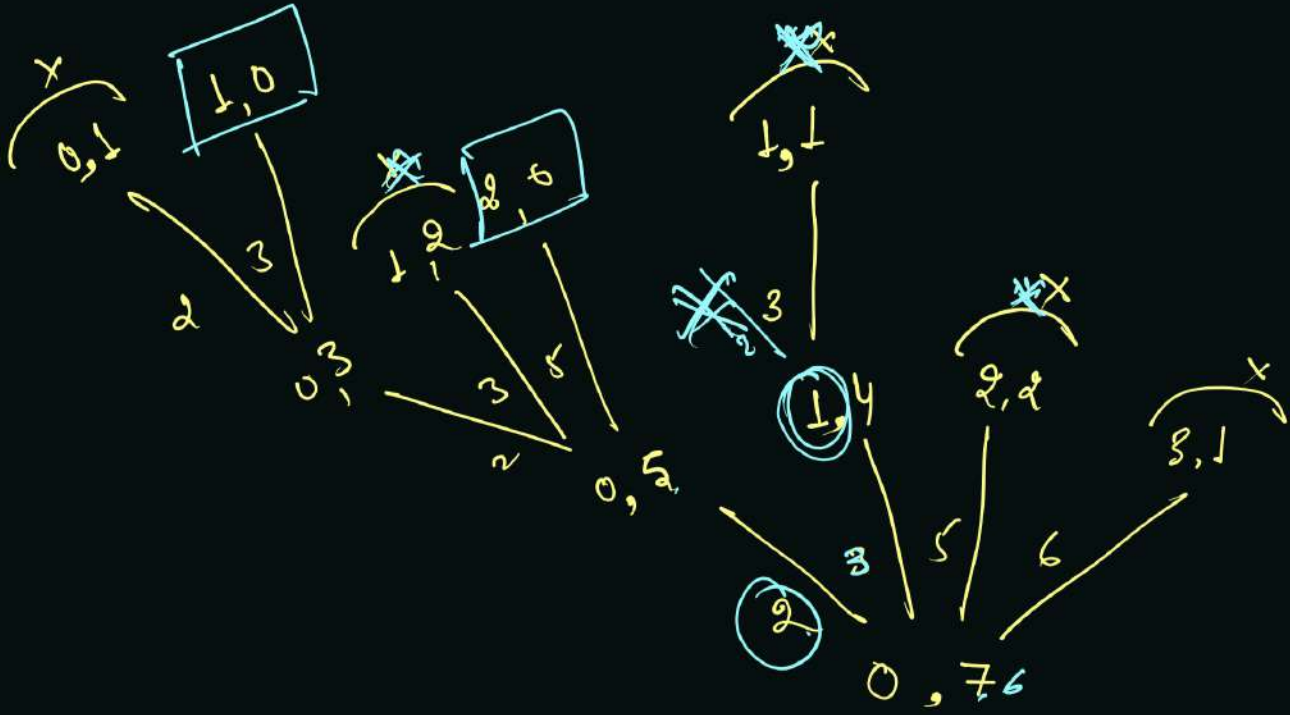
2 2 2
2 5

target = 7

* Index of last used coin

combination

(abc) = Select
permutation



0 1 2
[] [] []
Select 2, box


$$\{1, 2\} \rightarrow 4$$

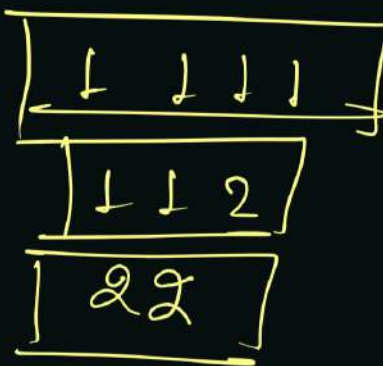
$\rightarrow 1111$
 $\rightarrow 112$
 $\rightarrow 22$

} combinations

given target
 dp [] []

Febulach on

3 2 2
5 2



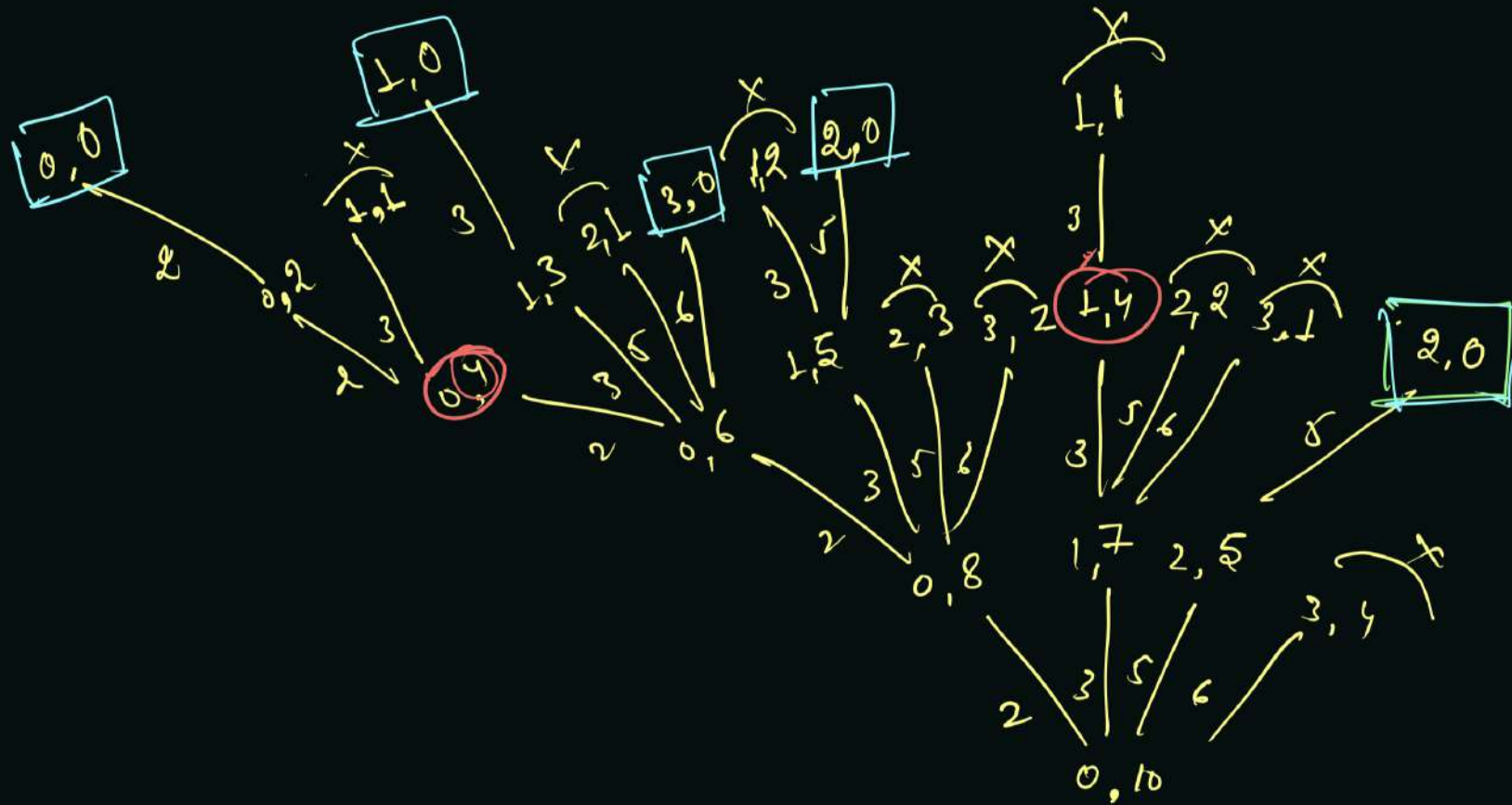
Coin Change
↓
Coins Infinite.

option forget
level → correct

coin $\rightarrow \{2, 3, 5, 6\}$

target = 10

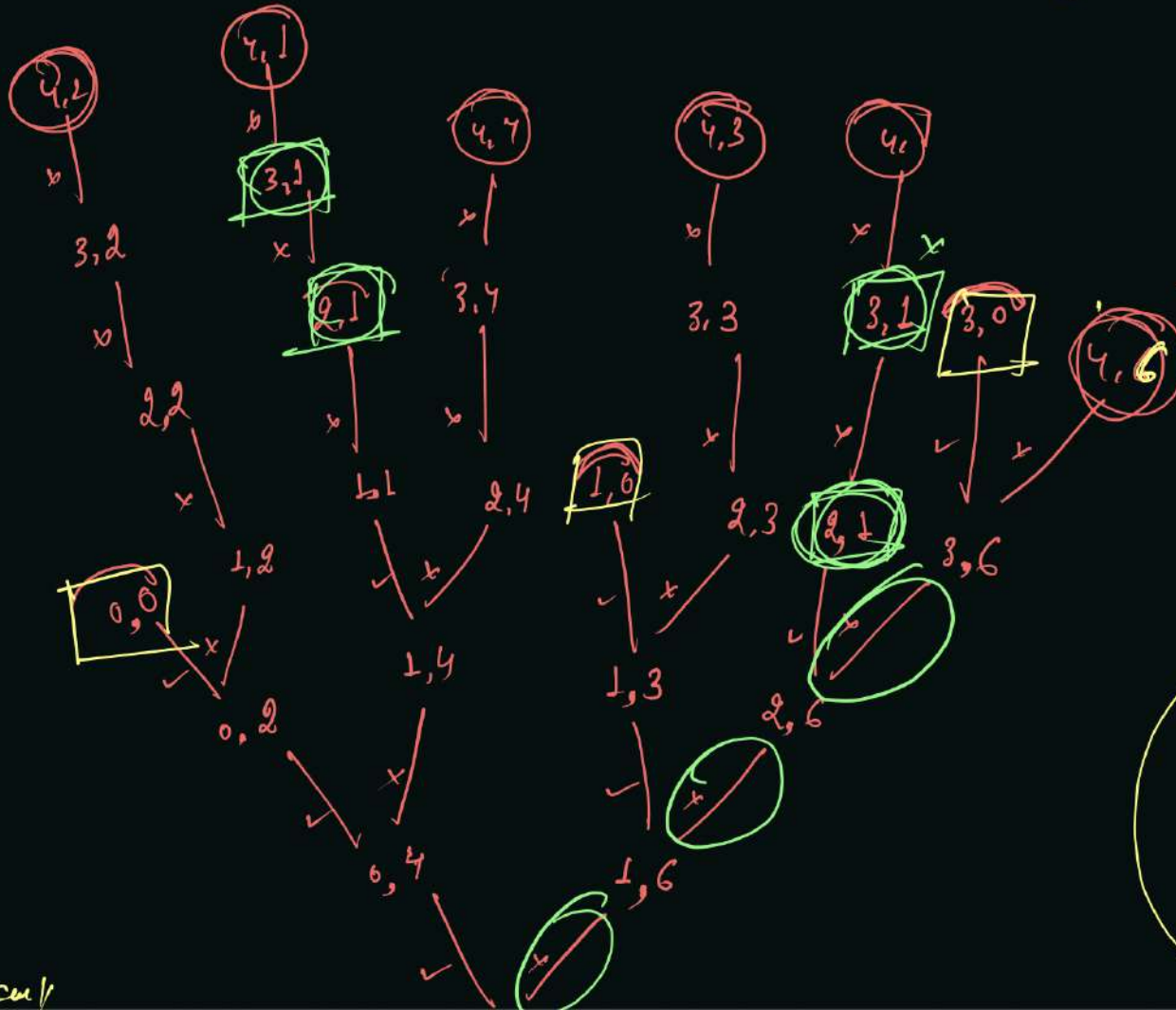
\rightarrow level \rightarrow target
 \rightarrow option \rightarrow coins



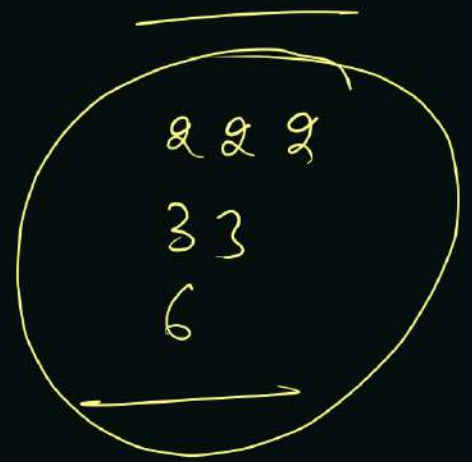


- "2"
 "3"
 "22"
 "23"
 "5"
 "222"
 "33"
 "6"
 "223"
 "25"

2 →
 3 →
 5 →
 6 →



0 1 2 3
 {2, 3, 5, 6}
 target = 6
 Base case



→ yes call