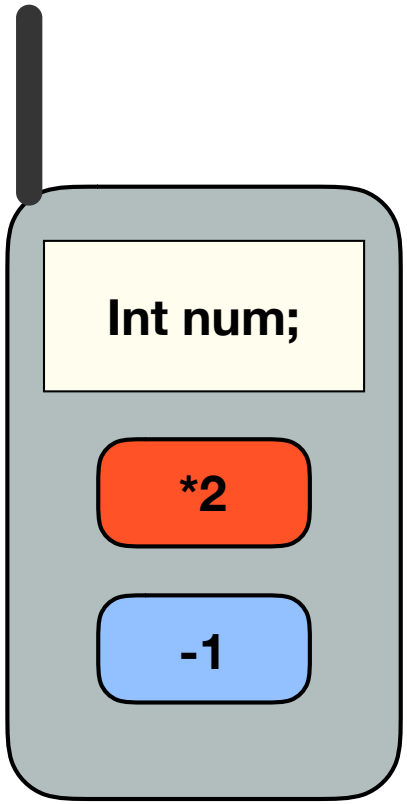
“Two Buttons”

BUTTONS

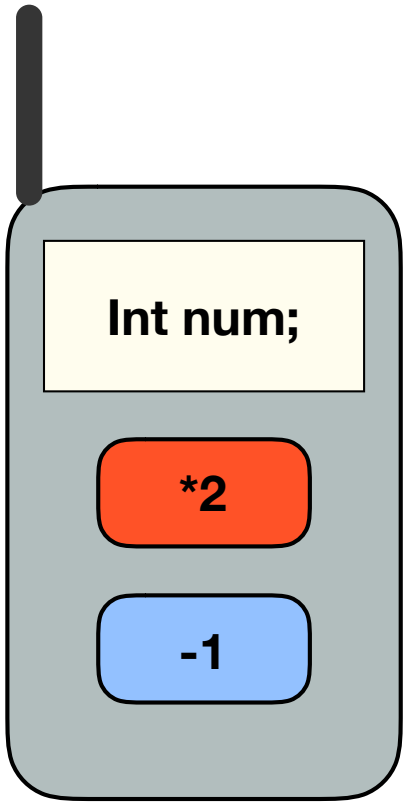
(Codeforces)



By Prince Agarwal

[“ Hello World ”]

TWO BUTTONS



Int n → Int m

4 6

Step 1: 4 *2 = 8;

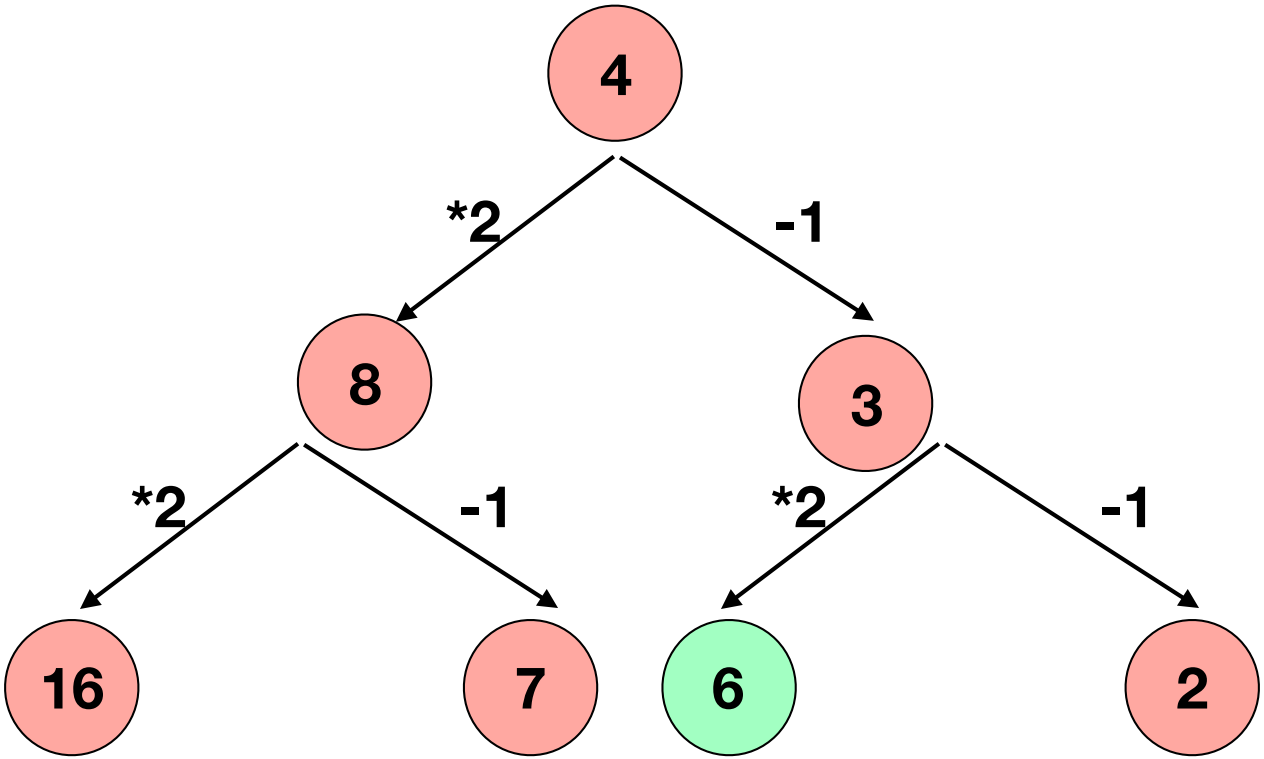
Step 2: 8-1 = 7;

Step 3: 7-1 = 6;

Step 1: 4-1 = 3;

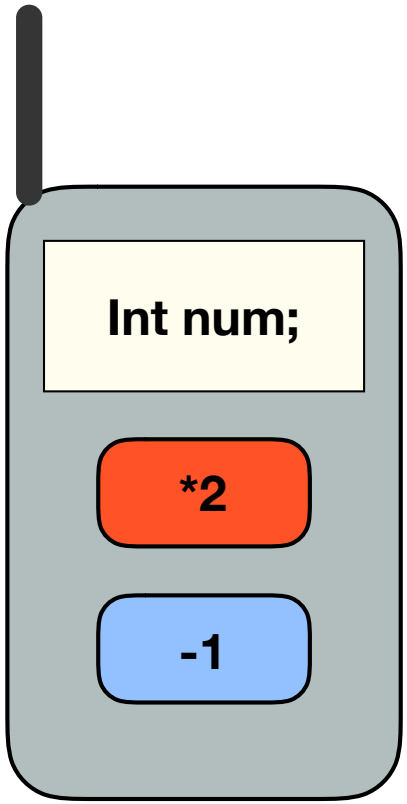
Step 2: 3 *2 = 6;

TWO BUTTONS



TWO BUTTONS

Approach : -



If (n > m)

Example : - n= 10 m =1

N = 20 —> 40 —> 80

N = 9 —> 8 —> 7 .. —> 1

If (n < m) n= 34 m = 235

N = *2

***2**

-1

***2**

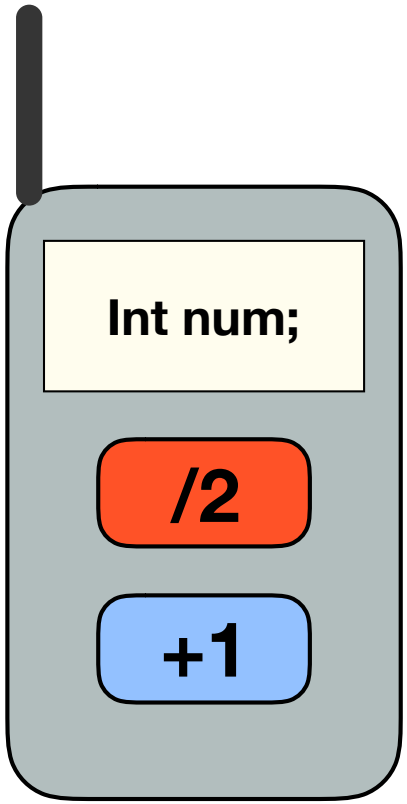
-1 **AND so on ….**

TWO BUTTONS

Best Approach : -

START FROM BACK SIDE

BACK-TRACKING



Int n ← **Int m**

4 **6**

If m == even ,

Divide ‘m’ by 2

If m == odd ,

Add ‘m’ by +1 → **Till**

m < n

Then Rest add as : (n-m)

TWO BUTTONS

99 100

Step 1: 100 /2 ; m= 50;

Step 2: 50 /2 ; m= 25;

Step 3: 25 +1 ; m= 26;

Step 4: 26 /2 ; m= 13;

Step 5: 13 +1 ; m= 14;

Step 6: 14 /2 ; m= 7;

Step 7: 7 +1 ; m= 8;

Step 8: 8 /2 ; m= 4;

Step 9: 4 /2 ; m= 2;

Step 10: 2 /2 ; m= 1;

Step 11: 1+1 ; m= 2;

Step 10: 2 /2 ; m= 1;

Now Rest Step = 99-50 = 49

Total step = 49 +1 =50

Subscribe, Like & Share

Hello World

“ If you feel any problem then comments in my video
I will reply as soon as possible “

- Prince Agarwal