Climbing Stairs

> You are climbing a stair of (n steps)

Ly either you can step 1 } at one Step 2 } three

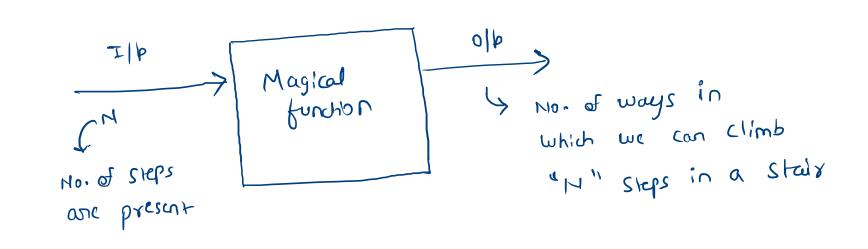
 $\frac{\text{Ilb}}{(1+1)^{n}} = \frac{1}{n}$

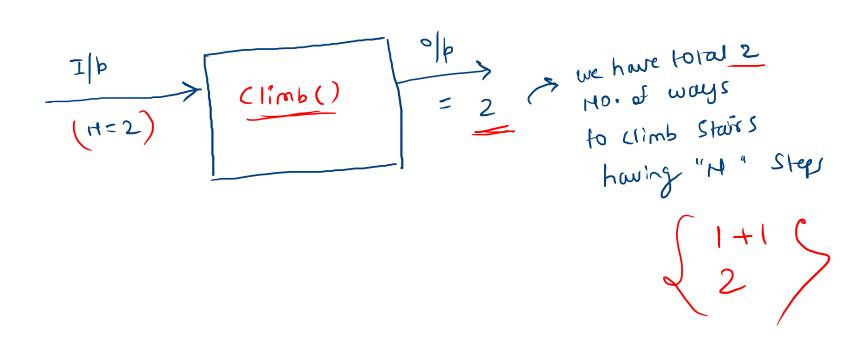
(2 w4 - 2

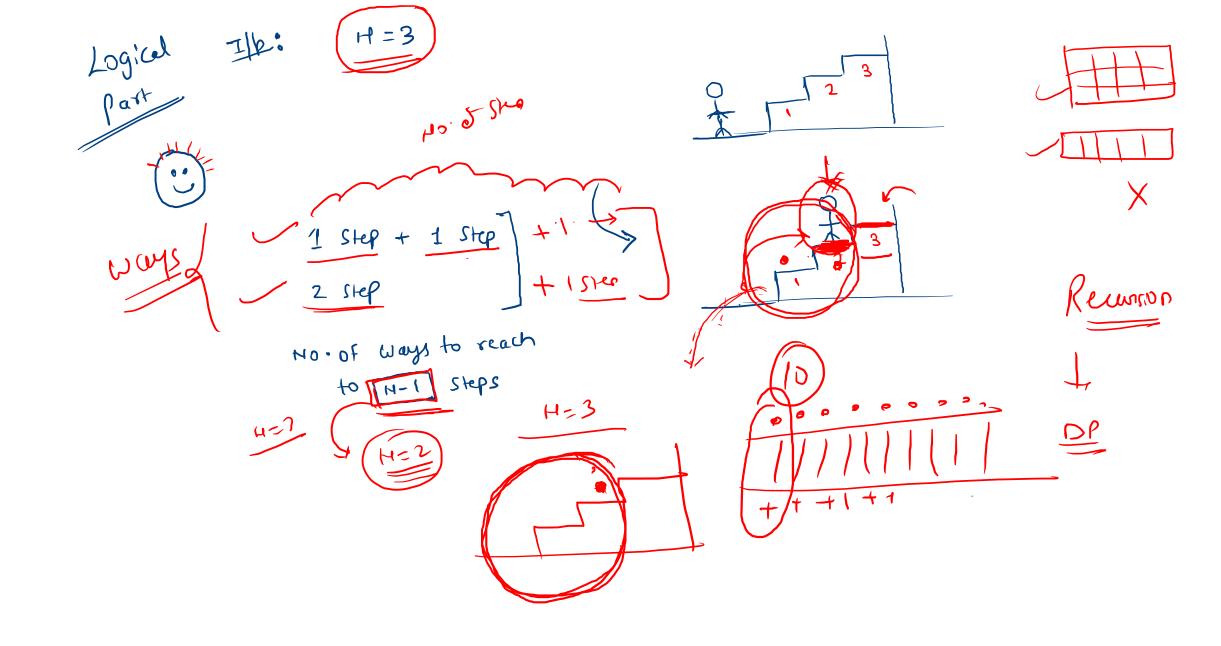
J\ 2

N=(30

n=3 olle: 2+1 Reconstant







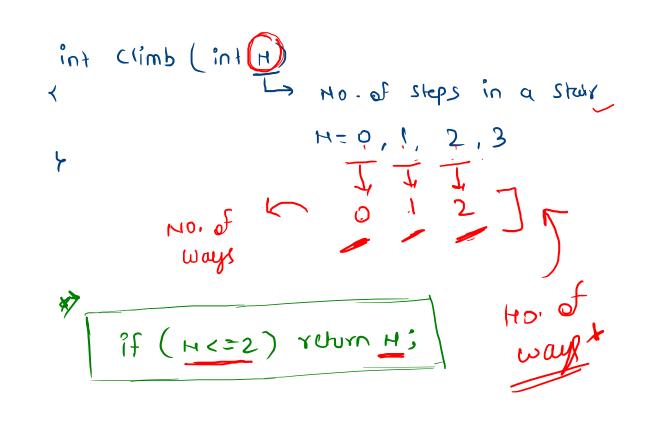
Logical Ille: H=3 No. of ways to reach reven 1+2Step 40. of ways to reach

```
int (limb (int [])

// Base (ondition >
Recurrence
Code
                           return (limb (M-1) + (limb (M-2);
```

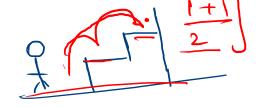
Base (ondition)

· Smallest Valld Input -> Check output



H=0

Hel



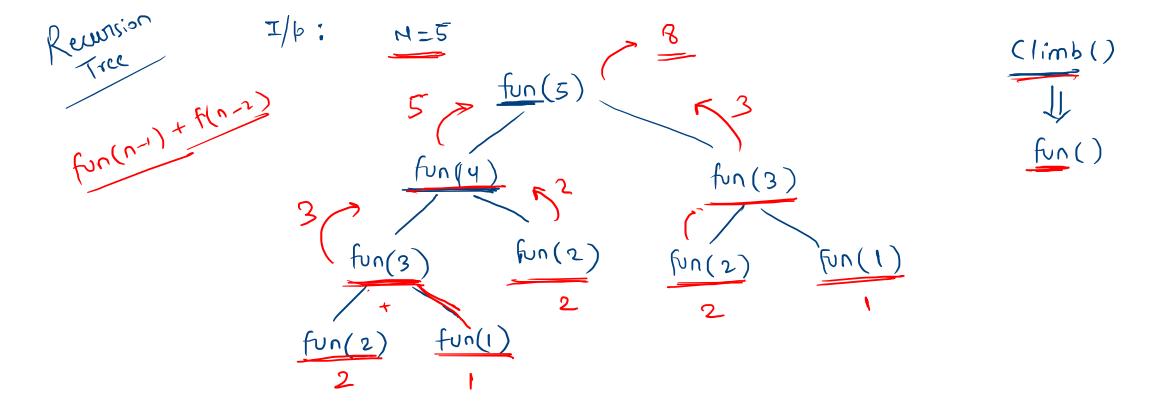
```
Remarke
```

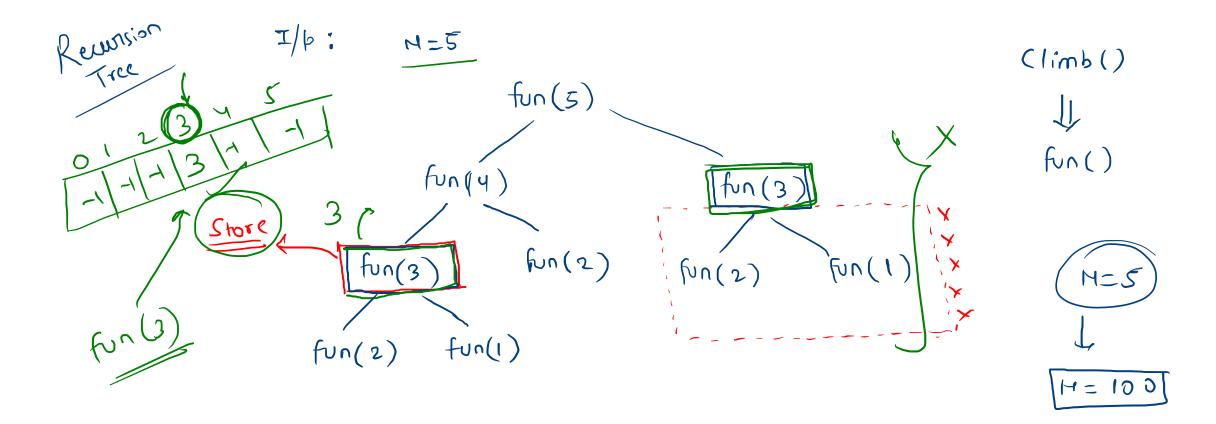
```
int (limb (int N)

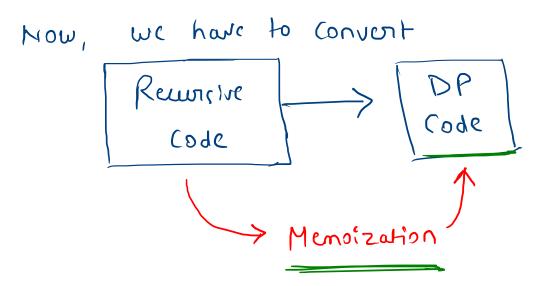
2 if (H<=2) return H;

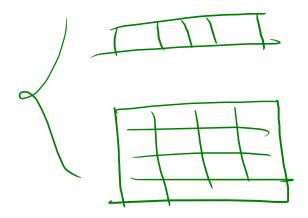
2 return (limb (H-1) + Climb (H-2);
```

Let's Code on Leetrode









DP code Recursive code Vector <10+> dp (H+1, -1); int climb (int []) if (H<=2) rourn H; int (limb (in+H) return (11mb (14-1) + (11mb (14-2); [[H]] i = -1) schru qb[H]? if (M <= 2) selvon (dp(H) = n; Umb (H-2);