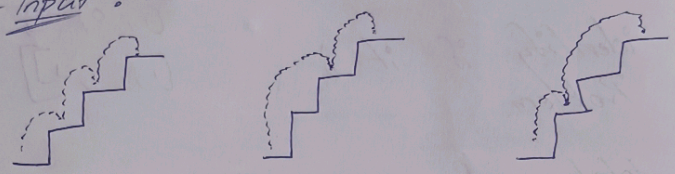
Count Ways to reach the N-Stairs / Climbing Stairs (LC-70)

Qn:- Input : n = 3



O/P = 3 ways

Sol 1. Stairs are indexes // Represent problem in terms of index

⇒ f(n) ⇒ no: of ways (0 → n)

2. Do All Possible stuffs acc to the problem

- As per the problem I can either jump 1 or 2 from my stair ⇒ f(ind-1); f(ind-2);

3. Count All ways

```
jump1 = f(ind-1);
jump2 = f(ind-2);
return jump1 + jump2;
```

Base Cases

1. if(ind==0) return 1;
2. if(ind==1) return 1;

Code

```
public int climbStairs(int n){
    if(n==0 || n==1) return 1;
    return climbStairs(n-1) + climbStairs(n-2)
```