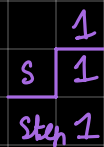


## 70 Climbing Stairs

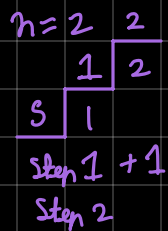
- It takes  $n$  steps to reach top
- Can only take 1 or 2 steps
- How many different ways can you get to top?

Base Case

$n=1$

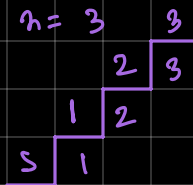


$n=2$



General Cases

$n=3$



To get to Step 1, we can in 1 way

Step 2, we can in 2 ways

So for Step 3, we can in  $1+2 = 3$  ways