

Climbing Stairs

Question: You are climbing a stair case. It takes n steps to reach to the top.

Each time you can either climb 1 or 2 steps. In how many distinct ways can you climb to the top?

Solutions:

class Solution:

```
    def climbStairs(n):
```

```
        dp = [0] * (n + 1)
```

```
        dp[0] = dp[1] = 1
```

```
        for x in range(2, n + 1):
```

```
            dp[x] = dp[x - 1] + dp[x - 2]
```

```
        return dp[n]
```

Solution.climbStairs(10)