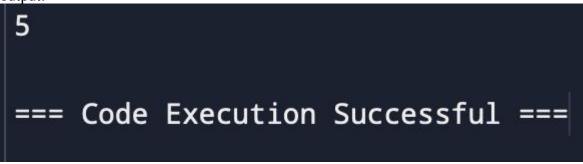137. You are climbing a staircase. It takes n steps to reach the top. Each time you can either climb 1 or 2 steps. In how many distinct ways can you climb to the top?
Program:

```python
def climbStairs(n):
    if n == 1:
        return 1
    first, second = 1, 2
    for i in range(3, n + 1):
        third = first + second
        first = second
        second = third
    return second


# Example
n = 4
print(climbStairs(n))
```

output:


```
5



=== Code Execution Successful ===
```

TIME COMPLEXITY:-O(n)