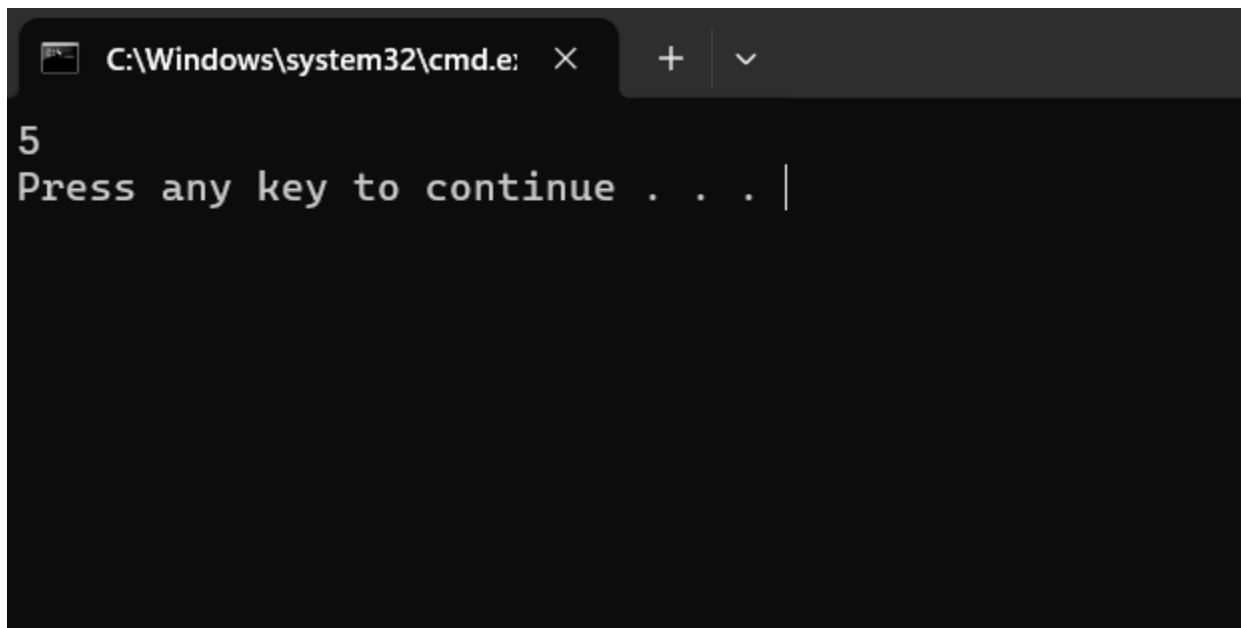


126) Number of ways to climb steps

CODE:

```
def climb_stairs(n):  
    if n == 1:  
        return 1  
    first, second = 1, 2  
    for _ in range(3, n + 1):  
        third = first + second  
        first, second = second, third  
    return second  
  
print(climb_stairs(4))
```

OUTPUT:

A screenshot of a Windows command prompt window. The title bar shows the path 'C:\Windows\system32\cmd.e' with a close button. The window content displays the number '5' on the first line, followed by the text 'Press any key to continue . . . |' on the second line, where the cursor is positioned after the vertical bar.

TIME COMPLEXITY :  $O(n)$