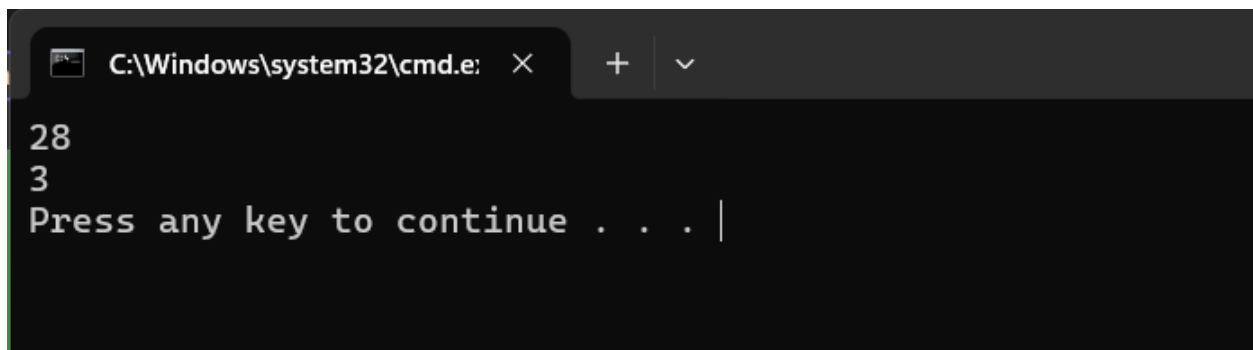


127)Counting unique paths in a grid

CODE:

```
def uniquePaths(m, n):  
    dp = [[1] * n for _ in range(m)]  
  
    for i in range(1, m):  
        for j in range(1, n):  
            dp[i][j] = dp[i - 1][j] + dp[i][j - 1]  
  
    return dp[m - 1][n - 1]  
  
# Examples  
print(uniquePaths(7, 3)) # Output: 28  
print(uniquePaths(3, 2)) # Output: 3
```

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 has a dark background. The output of the program is displayed in white text: '28' on the first line, '3' on the second line, and 'Press any key to continue . . . |' on the third line, where the cursor is positioned after the vertical bar.

TIME COMPLEXITY :  $O(n^2)$