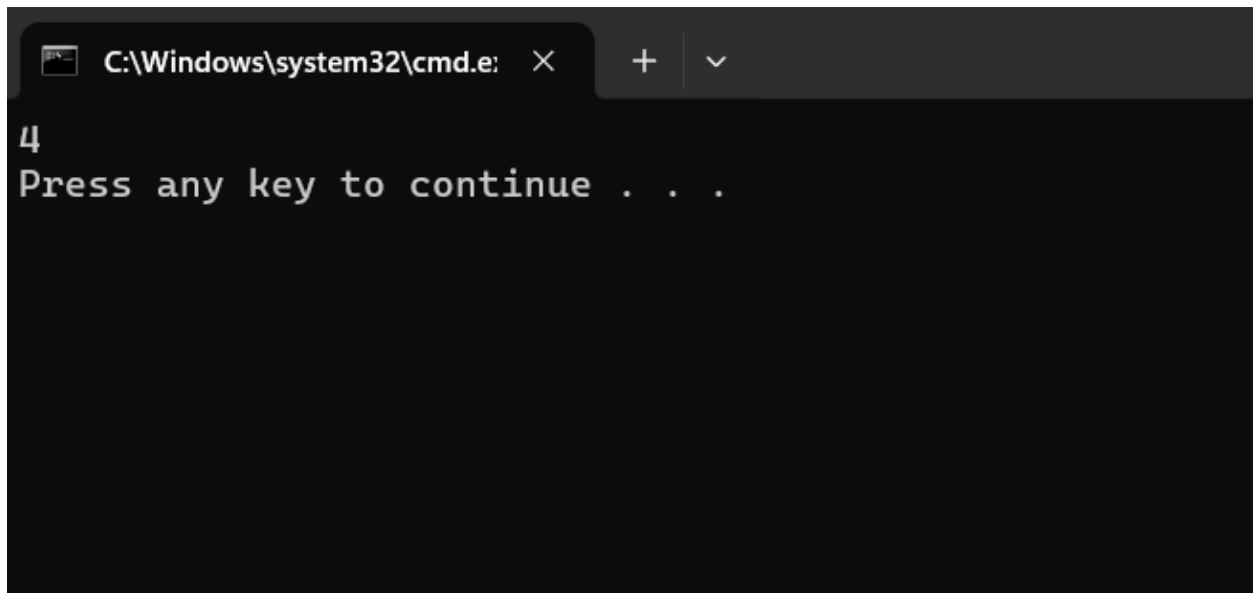


## 88) Coin Change Problem

CODE:

```
def count(S, m, n):  
    table = [[0 for x in range(m)] for x in range(n+1)]  
  
    for i in range(m):  
        table[0][i] = 1  
  
    for i in range(1, n+1):  
        for j in range(m):  
            x = table[i - S[j]][j] if i-S[j] >= 0 else 0  
            y = table[i][j-1] if j >= 1 else 0  
            table[i][j] = x + y  
  
    return table[n][m-1]  
  
arr = [1, 2, 3]  
m = len(arr)  
n = 4  
print(count(arr, m, n))
```

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 '4' on the first line, followed by the text 'Press any key to continue . . .' on the second line. The background is black, and the text is white.

TIME COMPLEXITY :  $O(n*m)$