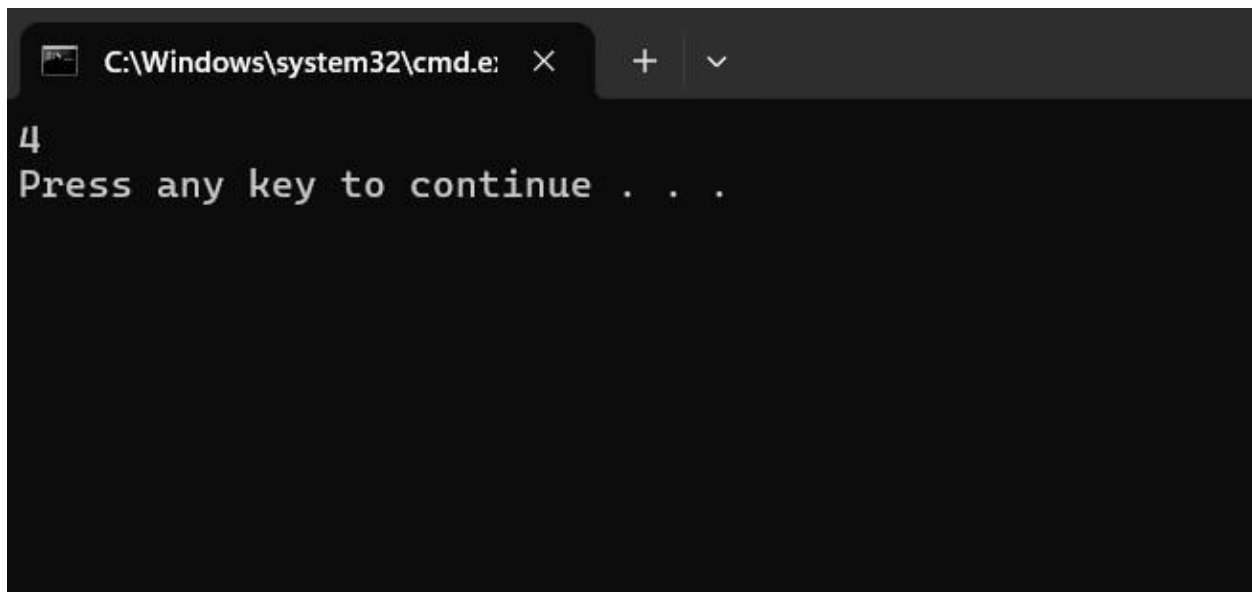


88) Coin Change Problem

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:
```



The screenshot shows a Windows command prompt window with the title bar 'C:\Windows\system32\cmd.e'. The window contains the output of the program, which is the number '4', followed by the prompt 'Press any key to continue . . .'. The window has a dark background and a light-colored title bar.

TIME COMPLEXITY : $O(n*m)$