

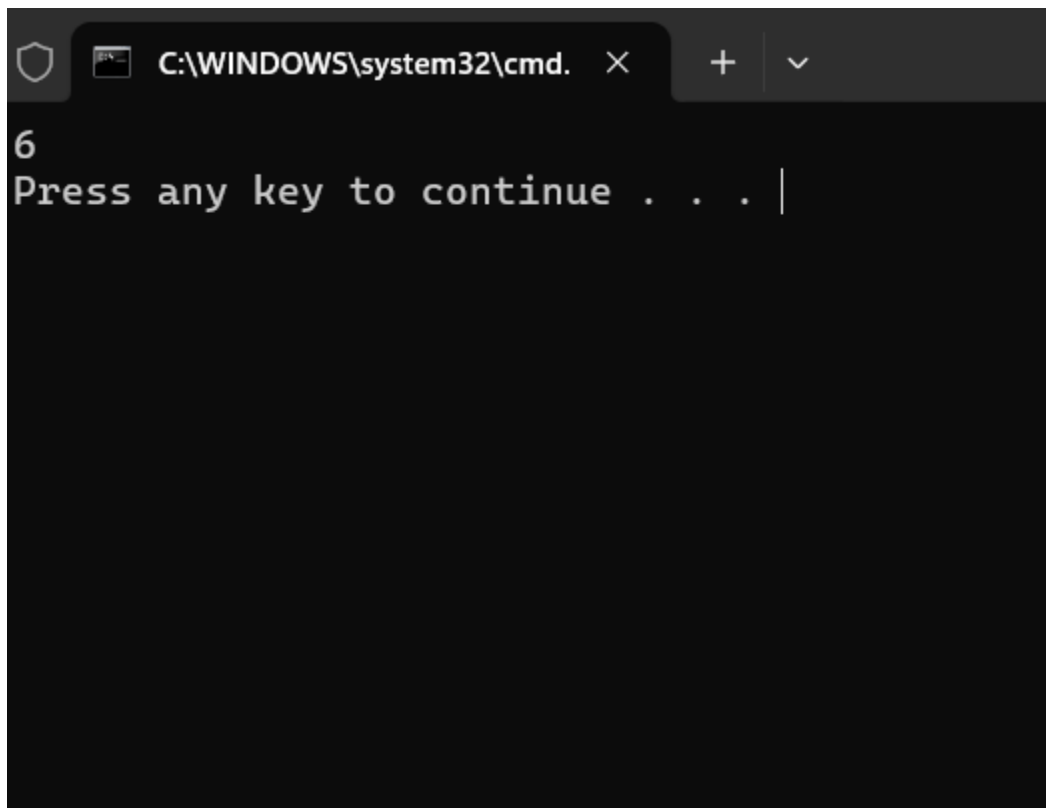
### 68) Maximum Subarray

Given an integer array `nums`, find the subarray which has the largest sum and return *its sum*.

#### CODE:

```
def maxSubArray(nums):  
    if not nums:  
        return 0  
  
    max_current = max_global = nums[0]  
  
    for i in range(1, len(nums)):  
        max_current = max(nums[i], max_current + nums[i])  
        if max_current > max_global:  
            max_global = max_current  
  
    return max_global  
a=[-2,1,-3,4,-1,2,1,-5,4]  
print(maxSubArray(a))
```

OUTPUT:

A screenshot of a Windows Command Prompt window. The title bar shows the path 'C:\WINDOWS\system32\cmd.' with standard window controls. The command prompt displays the number '6' on the first line, followed by the text 'Press any key to continue . . . |' on the second line, indicating the program has finished execution and is waiting for a key press.

**TIME COMPLEXITY :  $O(n)$**