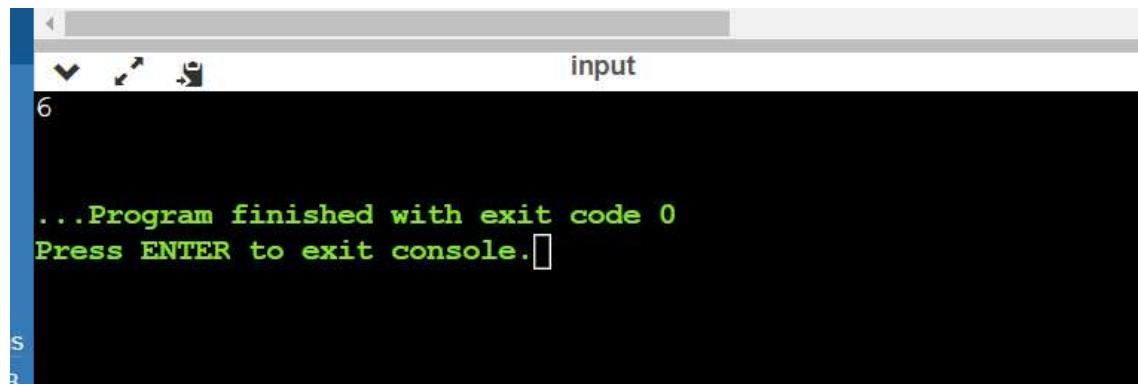


Problem 4: Given an array of non-negative integers representation elevation of ground. Your task is to find the water that can be trapped after rain.

```
def trap_water(height):  
    left = 0  
    right = len(height) - 1  
    left_max = 0  
    right_max = 0  
    water_trapped = 0  
  
    while left <= right:  
        if height[left] <= height[right]:  
            if height[left] > left_max:  
                left_max = height[left]  
            else:  
                water_trapped += left_max - height[left]  
            left += 1  
        else:  
            if height[right] > right_max:  
                right_max = height[right]  
            else:  
                water_trapped += right_max - height[right]  
            right -= 1  
  
    return water_trapped  
height = [0,1,0,2,1,0,1,3,2,1,2,1]  
print(trap_water(height))
```



A screenshot of a terminal window with the title bar 'input'. The terminal has a black background and green text. The text displayed is: '6' on the first line, '...Program finished with exit code 0' on the second line, and 'Press ENTER to exit console.' on the third line, followed by a white cursor. The window includes standard OS controls (minimize, maximize, close) and a vertical scrollbar on the left.

```
6
...Program finished with exit code 0
Press ENTER to exit console.
```