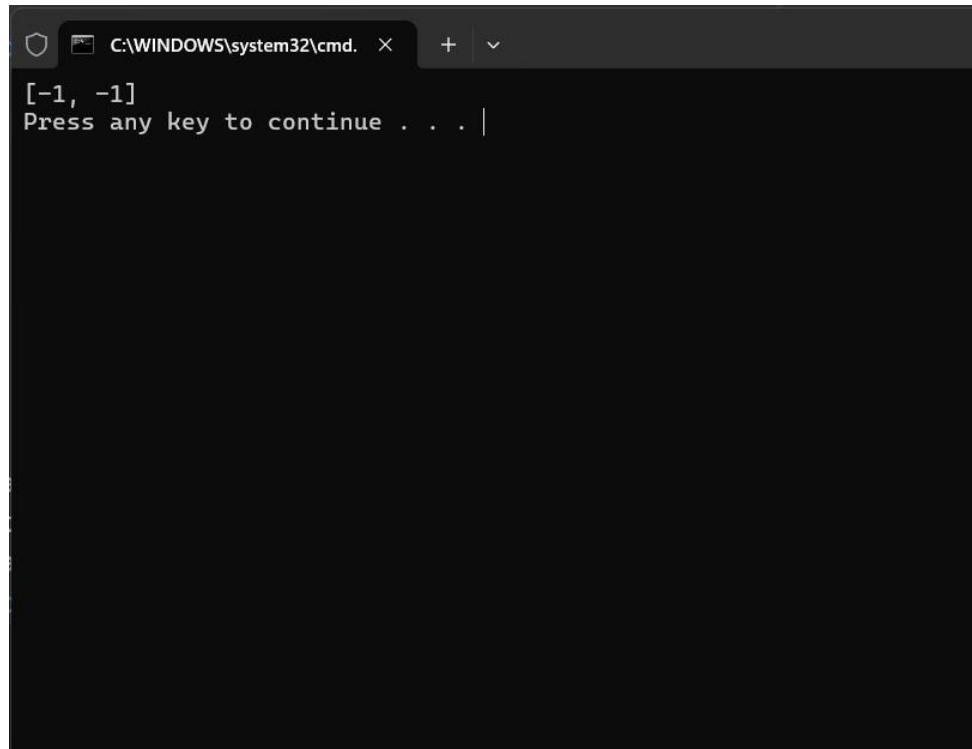


45) Find First and Last Position of Element in Sorted Array Given an array of integers nums sorted in non-decreasing order, find the starting and ending position of a given target value. If target is not found in the array, return [-1, -1].

CODE:

```
def search(a, t):
    b=[]      c=[-1,-1]
    for i in range(len(a)):
        if a[i] == t:
            b.append(i)
    if b!=[]:
        return b
    else:
        return c
```

```
a = [4, 3, 1, 2, 5, 0,0] t
= 10
a.sort()
print(search(a, t))
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 output of the search function: '[-1, -1]' on the first line, followed by 'Press any key to continue . . .' on the second line. The cursor is positioned at the end of the second line.

TIME COMPLEXITY : $O(n \log n)$