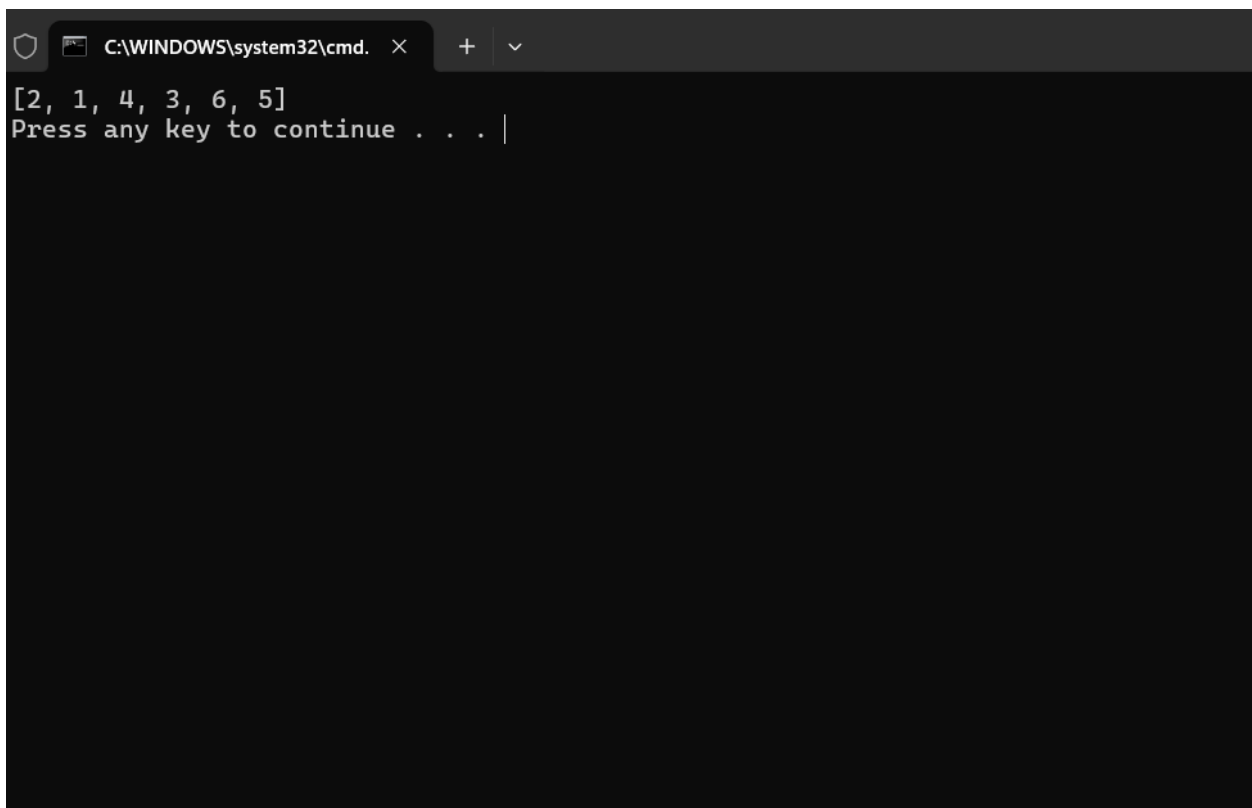


18) Sort the array so that whenever `nums[i]` is odd, `i` is odd, and whenever `nums[i]` is even, `i` is even. Return any answer array that satisfies this condition.

CODE:

```
def sorta(a):
    odd=sorted([x for x in a if x%2!=0])
    even=sorted([x for x in a if x%2==0])
    sorted_nums=[0]*len(a)
    sorted_nums[::2]=even
    sorted_nums[1::2]=odd
    return sorted_nums
a=[1,2,3,4,5,6]
print(sorta(a))
```

OUTPUT:

A screenshot of a Windows command prompt window. The title bar shows the path 'C:\WINDOWS\system32\cmd.' and standard window controls. The command prompt displays the output of the Python code: '[2, 1, 4, 3, 6, 5]' followed by the prompt 'Press any key to continue . . . |'.

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