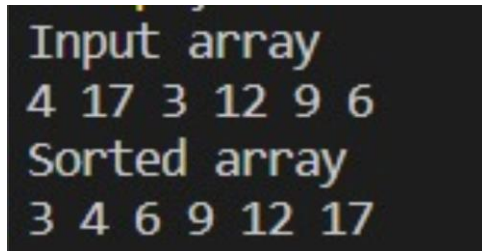


LAB 08

200356A

Screenshots

Using the user input same as the sample input given [4,17,3,12,9,6]



```
Input array
4 17 3 12 9 6
Sorted array
3 4 6 9 12 17
```

Time complexity for heap sort is  $O(n\log(n))$ .

For building heap it needs  $O(n\log(n))$  and for sorting It needs  $O(n\log(n))$ .

Link for codes

<https://github.com/Dulan24/S4-CS2023-DSA-labs/tree/master/LAB8%20May02>