

Urutan Peserta

Problem	Submissions	Leaderboard	Discussions
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Submitted 13 days ago • Score: 100.00
 Status: Accepted

✓	Test Case #0	✓	Test Case #1	✓	Test Case #2
✓	Test Case #3	✓	Test Case #4	✓	Test Case #5

Submitted Code

Language: Python 3

Open in editor

```

1 def merge_sort(arr):
2     if len(arr) <= 1:
3         return arr, 0
4     mid = len(arr) // 2
5     left, inv_left = merge_sort(arr[:mid])
6     right, inv_right = merge_sort(arr[mid:])
7     merged, count = merge(left, right)
8     count += inv_left + inv_right
9     return merged, count
10
11 def merge(left, right):
12     result = []
13     i = j = inversions = 0
14     while i < len(left) and j < len(right):
15         if left[i] <= right[j]:
16             result.append(left[i])
17             i += 1
18         else:
19             result.append(right[j])
20             j += 1
21             inversions += len(left) - i
22     result += left[i:]
23     result += right[j:]
24     return result, inversions
25
26 n = int(input())
27 arr = list(map(int, input().split()))
28
29 sorted_arr, inversions = merge_sort(arr)
30
31 print(*sorted_arr)
32 print(inversions)

```

