

















```
Programiz Python Online Compiler
                                               45
                                                           α<sup>c</sup> Share
                                                                         Run
                                                                                    Output
main.py
        left = merge_sort(arr[:mid])
                                                                                  [5, 6, 7, 11, 12, 13]
        right = merge_sort(arr[mid:])
        return merge(left, right)
                                                                                  === Code Execution Successful ===
 9 def merge(left, right):
10
        result = []
        while i < len(left) and j < len(right):
13
            if left[i] < right[j]:</pre>
                result.append(left[i])
14
                result.append(right[j])
18
        result.extend(left[i:])
        result.extend(right[j:])
20
21
        return result
22
23 nums = [12, 11, 13, 5, 6, 7]
24 sorted_nums = merge_sort(nums)
25
   print(sorted_nums)
26
```