Run Code

Our Solution(s)

9

10 11

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13 14

16 17

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j += 1 k += 1

W 100, 100, 2 mg

Run Code

Your Solutions

```
Solution 1 Solution 2
 1 # Copyright © 2020 AlgoExpert, LLC. All rights reserved.
3 # Best: O(nlog(n)) time | O(nlog(n)) space
4 # Average: O(nlog(n)) time | O(nlog(n)) space
 5 # Worst: O(nlog(n)) time | O(nlog(n)) space
 6 def mergeSort(array):
      if len(array) == 1:
          return array
       middleIdx = len(array) // 2
       leftHalf = array[:middleIdx]
       rightHalf = array[middleIdx:]
       return mergeSortedArrays(mergeSort(leftHalf), mergeSort(rightHalf
15 def mergeSortedArrays(leftHalf, rightHalf):
       sortedArray = [None] * (len(leftHalf) + len(rightHalf))
       k = i = j = 0
       while i < len(leftHalf) and j < len(rightHalf):
          if leftHalf[i] <= rightHalf[j]:</pre>
               sortedArray[k] = leftHalf[i]
               i += 1
               sortedArray[k] = rightHalf[j]
               j += 1
           k += 1
       while i < len(leftHalf):</pre>
          sortedArray[k] = leftHalf[i]
           i += 1
           k += 1
       while j < len(rightHalf):</pre>
           sortedArray[k] = rightHalf[j]
```

```
Solution 1 Solution 2 Solution 3
1 def mergeSort(array):
      # Write your code here.
3
      pass
4
```

Our Tests Custom Output Submit Code Mark Committee (Committee of Committee of Co

Run or submit code when you're ready.