

Problem 3: Rearrange array digits

In this problem, we first sort the given array using merge sort after this the array is divide in two parts and digits in both groups are combined and two numbers are formed whose sum will be maximum.

Time complexity:

$O(n \cdot \log(n))$: We are sorting the array using merge sort.

Space complexity:

$O(n)$: We store a copy of original given array