ADAlab Online Judge

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■ Ranbk101109107 ▼

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non-ascending order using merge sort. Output the sorted array.

Input

The first line is an integer n, being the size of the integer array. The second line contains n integers a_1, a_2, \cdots, a_n , being the elements of the integer array.

Constraints

- $1 < n < 10^6$

Output

Output the sorted array in one line.

Sample Input 1 🖹

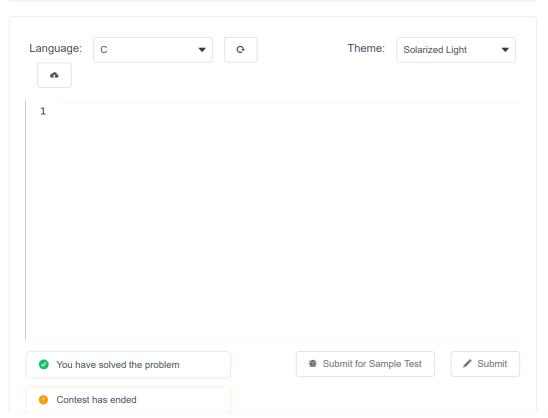
5 4 8 7 6 3

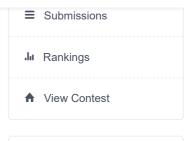
Sample Output 1

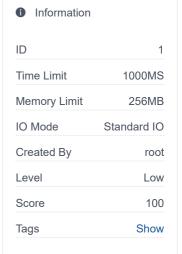
8 7 6 4 3

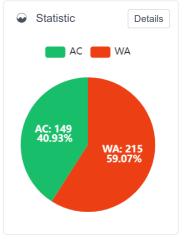
Source

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