

Merge Sort - Problem Statement

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Sort an array A using Merge Sort.

Change in the input array itself. So no need to return or print anything.

Input format :

Line 1 : Integer n i.e. Array size

Line 2 : Array elements (separated by space)

Output format :

Array elements in increasing order (separated by space)

Constraints :

$1 \leq n \leq 10^3$

Sample Input 1 :

6

2 6 8 5 4 3

Sample Output 1 :

2 3 4 5 6 8

Sample Input 2 :

5

2 1 5 2 3

Sample Output 2 :

1 2 2 3 5