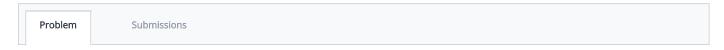
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T 121 - Alternating Elements



Given an array of integers, sort the array into a wave like array and return it. In other words, arrange the elements into a sequence such that a1 >= a2 <= a3 >= a4 <= a5.....

Example

Given [1, 2, 3, 4]

One possible answer: [2, 1, 4, 3] Another possible answer: [4, 1, 3, 2]

NOTE: If there are multiple answers possible, return the one thats lexicographically smallest. So, in example case, you will return [2, 1, 4,

Input Format

Solved: 716 Attempted: 722 First line contains numb the array.

Second line contains N integers, the elements of the array.

Constraints

```
1 <= N <= 10^5
                           Solved: 592
                          Attempted: 594
1 <= Array[i] <= 10^5
```

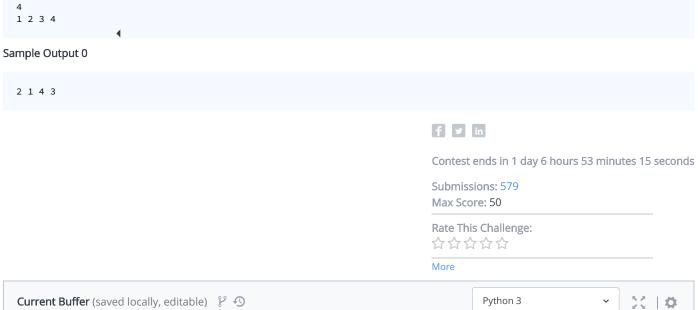
All elements in the array will be distinct.

Output Format

Output N integers, the lexicographically smallest wave array.

Sample Input 0

```
4
1 2 3 4
```





```
return temp
n = int(input())
numbers = list(map(int, input().strip().split(' ')))
print (*pattern(numbers))

Line: 9 Col: 1

Line: 9 Col: 1
```

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