T 121 - Alternating Elements

Problem Submissions

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, 3]

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
1 <= Array[i] <= 10^5

Solved: 592
Attempted: 594

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
```

Sample Output 0

```
2 1 4 3
```


Current Buffer (saved locally, editable) Python 3

```
1 def pattern(temp):
2     temp.sort()
3     for i in range(0,(len(temp)-1),2):
4         temp[i], temp[i+1] = temp[i+1], temp[i]
```

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

```

Line: 9 Col: 1

Upload Code as File Test against custom input Run Code Submit Code