Find the treasure

Shreyansh finds a mysterious book that demands a strange sequence of numbers to decipher the location of a treasure. He comes to you for help. Can you help him?

A permutation of length n is an array consisting of n distinct integers from 1 to n in arbitrary order. For example, [2,3,1,5,4] is a permutation, but [1,2,2] is not a permutation (2 appears twice in the array) and [1,3,4] is also not a permutation (n=3 but there is 4 in the array).

You are given a permutation of length **n**.
You need to print the series of those **n** numbers in the form of smallest, largest first followed by second smallest, second largest, and so on.

For example :
Given sequence : 2 5 6 4 7 3 1
Output : 1 7 2 6 3 5 4

Input Format

- First-line will contain T, the number of test cases. Then the test cases follow.
- Each test case contains 2 lines of input.
- The first line of each test case contains a single integer *n* - the length of the permutation.
- The second line of each test case contains n integers $p_1,p_2\ldots,p_n$ ($1\le p_i\le n$). It is guaranteed that p is a permutation.

Constraints

- $1\le$ **T** ≤ 10
- $1\le$ **n** $\le 10^6$

Output Format

For each test case, output n integers in the given format .

Sample Input 0

```
2
7
2 5 6 4 7 3 1
6
6 4 5 2 3 1
```

Sample Output 0

```
1 7 2 6 3 5 4
1 6 2 5 3 4
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