

In this challenge, the task is to debug the existing code to successfully execute all provided test files.

Given an array of n distinct integers, transform the array into a zig zag sequence by permuting the array elements. A sequence will be called a zig zag sequence if the first k elements in the sequence are in increasing order and the last k elements are in decreasing order, where $k = (n + 1)/2$. You need to find the *lexicographically smallest* zig zag sequence of the given array.

For example let's say $a = [2, 3, 5, 1, 4]$. Now if we permute the array as $[1, 4, 5, 3, 2]$, the result is a zig zag sequence.

Debug the given function `findZigZagSequence` to return the appropriate zig zag sequence for the given input array.

Note: You can modify at most *three* lines in the given code and you cannot add or remove lines to the code.

To restore the original code in the editor, create a new buffer by clicking on the top left icon in the editor.

Input Format

The first line contains t the number of test cases. The first line of each test case contains an integer n , denoting the number of array elements. The next line of the test case contains n elements of array a .

Constraints

$$\begin{aligned} 1 &\leq t \leq 20 \\ 1 &\leq n \leq 10000 \text{ (} n \text{ is always odd)} \\ 1 &\leq a_i \leq 10^9 \end{aligned}$$

Output Format

For each test cases, print the elements of the transformed zig zag sequence in a single line.

Sample Input 0

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

Sample Output 0

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