

Shuffle integers

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Problems

Given an array of n elements in the following format { $a_1, a_2, a_3, a_4, \dots, a_{n/2}, b_1, b_2, b_3, b_4, \dots, b_{n/2}$ }. The task is shuffle the array to { $a_1, b_1, a_2, b_2, a_3, b_3, \dots, a_{n/2}, b_{n/2}$ } without using extra space.

Input:

The first line of input contains an integer T denoting the number of test cases. Then T test cases follow, Each test case contains an integer n denoting the size of the array. The next line contains n space separated integers forming the array.

Output:

Print the shuffled array without using extra space.

Constraints:

$$1 \leq T \leq 10^5$$

$$1 \leq n \leq 10^5$$

$$1 \leq a[i] \leq 10^5$$

Example:

Input:

```
2
4
1 2 9 15
6
1 2 3 4 5 6
```

Output:

```
1 9 2 15
1 4 2 5 3 6
```

**** For More Input/Output Examples Use 'Expected Output' option ****

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