

## A. Favorite Sequence

time limit per test: 2 seconds

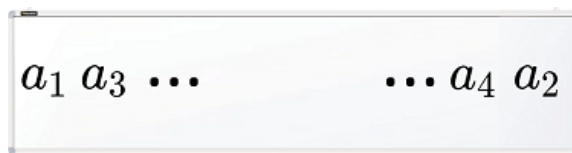
memory limit per test: 256 megabytes

input: standard input

output: standard output

Polycarp has a favorite sequence  $a[1 \dots n]$  consisting of  $n$  integers. He wrote it out on the whiteboard as follows:

- he wrote the number  $a_1$  to the left side (at the beginning of the whiteboard);
- he wrote the number  $a_2$  to the right side (at the end of the whiteboard);
- then as far to the left as possible (but to the right from  $a_1$ ), he wrote the number  $a_3$ ;
- then as far to the right as possible (but to the left from  $a_2$ ), he wrote the number  $a_4$ ;
- Polycarp continued to act as well, until he wrote out the entire sequence on the whiteboard.



The beginning of the result looks like this (of course, if  $n \geq 4$ ).

For example, if  $n = 7$  and  $a = [3, 1, 4, 1, 5, 9, 2]$ , then Polycarp will write a sequence on the whiteboard  $[3, 4, 5, 2, 9, 1, 1]$ .

You saw the sequence written on the whiteboard and now you want to restore Polycarp's favorite sequence.

### Input

The first line contains a single positive integer  $t$  ( $1 \leq t \leq 300$ ) — the number of test cases in the test. Then  $t$  test cases follow.

The first line of each test case contains an integer  $n$  ( $1 \leq n \leq 300$ ) — the length of the sequence written on the whiteboard.

The next line contains  $n$  integers  $b_1, b_2, \dots, b_n$  ( $1 \leq b_i \leq 10^9$ ) — the sequence written on the whiteboard.

### Output

Output  $t$  answers to the test cases. Each answer — is a sequence  $a$  that Polycarp wrote out on the whiteboard.

### Example

input	Copy
6	
7	
3 4 5 2 9 1 1	
4	
9 2 7 1	
11	
8 4 3 1 2 7 8 7 9 4 2	
1	
42	
2	
11 7	
8	
1 1 1 1 1 1 1 1	

### Codeforces Round #690 (Div. 3)

Finished

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### → Problem tags

implementation two pointers \*800  
No tag edit access

### → Contest materials

- Announcement ☐
- Tutorial ☐

**output**[Copy](#)

```
3 1 4 1 5 9 2
9 1 2 7
8 2 4 4 3 9 1 7 2 8 7
42
11 7
1 1 1 1 1 1 1
```

**Note**

In the first test case, the sequence  $a$  matches the sequence from the statement. The whiteboard states after each step look like this:

$[3] \Rightarrow [3, 1] \Rightarrow [3, 4, 1] \Rightarrow [3, 4, 1, 1] \Rightarrow [3, 4, 5, 1, 1] \Rightarrow [3, 4, 5, 9, 1, 1] \Rightarrow [3, 4, 5, 2, 9, 1, 1]$

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