

A. Favorite Sequence

time limit per test: 2 seconds
memory limit per test: 256 megabytes

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	
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 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:

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

Codeforces Round 690 (Div. 3)

Finished

Practice

→ Virtual participation

Virtual contest is a way to take part in past contest, as close as possible to participation on time. It is supported only ICPC mode for virtual contests. If you've seen these problems, a virtual contest is not for you - solve these problems in the archive. If you just want to solve some problem from a contest, a virtual contest is not for you - solve this problem in the archive. Never use someone else's code, read the tutorials or communicate with other person during a virtual contest.

Start virtual contest

→ Clone Contest to Mashup

You can clone this contest to a mashup.

Clone Contest

→ Submit?

Language: GNU G++20 13.2 (64 bit, win

Choose file: Choose File No file chosen

Submit

→ Last submissions

Submission	Time	Verdict
240669910	Jan/07/2024 12:24	Accepted

→ Problem tags

implementation two pointers *800

No tag edit access

→ Contest materials

Announcement

Tutorial