

G. Front - End

time limit per test: 1 second
 memory limit per test: 256 megabytes
 input: standard input
 output: standard output

One day *Omar* was angry with *Yousef*, so he gave him a hard problem.

He gave him an array a consists of n numbers and asked him to print the front element then remove it, then print the end element then remove it and so on until the array becomes empty.

Yousef can't do this so he needs your help to solve this problem, can you?

Input

The first line contains an integer n ($1 \leq n \leq 10^5$) the number of elements of the array a .

The second line contains n integers a_i ($-10^9 \leq a_i \leq 10^9$) the elements of the array

Output

Print the array a with the required order.

Example

input

Copy

5
 1 2 3 4 5

output

Copy

1 5 2 4 3

ICPC Assiut Advanced Newcomers 2023

Private

Participant



→ Group Contests

- ICPC Assiut Advanced Newcomers 2023 Contest 5
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- ICPC Assiut Advanced Newcomers 2023 Contest 3
- ICPC Assiut Advanced Newcomers Practice #1
- ICPC Assiut Advanced Newcomers 2023 Contest 2
- ICPC Assiut Advanced Newcomers 2023 Onsite Contest 2
- ICPC Assiut Advanced Newcomers 2023 Contest 1
- ICPC Assiut Advanced Newcomers 2023 Onsite Contest 1

ICPC Assiut Advanced Newcomers 2023 Contest 4

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

→ Submit?

Language: GNU G++20 11.2.0 (64 bit, w)