CODEFORCES β
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HOME   CONTESTS   GYM   PROBLEMSET   GROUPS   RATING   API   CANADA CUP 🏆   SECTIONS

PROBLEMS   SUBMIT   STATUS   STANDINGS   CUSTOM TEST

A. Cards

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

There are n cards (n is **even**) in the deck. Each card has a positive integer written on it. $n / 2$ people will play new card game. At the beginning of the game each player gets two cards, each card is given to exactly one player.

Find the way to distribute cards such that the sum of values written of the cards will be equal for each player. It is guaranteed that it is always possible.

Input

The first line of the input contains integer n ($2 \le n \le 100$) — the number of cards in the deck. It is guaranteed that n is even.

The second line contains the sequence of n positive integers $a_1, a_2, ..., a_n$ ($1 \le a_i \le 100$), where a_i is equal to the number written on the i-th card.

Output

Print $n / 2$ pairs of integers, the i-th pair denote the cards that should be given to the i-th player. Each card should be given to exactly one player. Cards are numbered in the order they appear in the input.

It is guaranteed that solution exists. If there are several correct answers, you are allowed to print any of them.

Examples

input
6 1 5 7 4 4 3

output
1 3 6 2 4 5

input
4 10 10 10 10

output
1 2 3 4

Note

In the first sample, cards are distributed in such a way that each player has the sum of numbers written on his cards equal to 8.

In the second sample, all values a_i are equal. Thus, any distribution is acceptable.

Codeforces Round #364 (Div. 2)
Finished

→ **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 ACM-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]

→ **Problem tags**

greedy

No tag edit access

→ **Contest materials**

- Announcement   ✕
- Tutorial   ✕