Ice Cream Parlor

HackerRank

Problem Statement

Sunny and Johnny together have M dollars they want to spend on ice cream. The parlor offers N flavors, and they want to choose two flavors so that they end up spending the whole amount.

You are given the cost of these flavors. The cost of the i^{th} flavor is denoted by c_i. You have to display the indices of the two flavors whose sum is M.

Input Format

The first line of the input contains T; T test cases follow.
Each test case follows the format detailed below: The first line contains M. The second line contains N. The third line contains N space-separated integers denoting the price of each flavor. Here, the i^{th} integer denotes c_i.

Output Format

Output two integers, each of which is a valid index of a flavor. The lower index must be printed first. Indices are indexed from 1 to N.

Constraints

$1 \leq T \leq 50$
$2 \leq M \leq 10000$
$2 \leq N \leq 10000$
$1 \leq c_i \leq 10000, where\ i \in [1, N]$
The prices of any two items may be the same and each test case has a unique solution.

Sample Input

```
2
4
5
1 4 5 3 2
4
4
2 2 4 3
```

Sample Output

```
1 4
1 2
```

Explanation

The sample input has two test cases.
For the 1st, the amount M = 4 and there are 5 flavors at the store. The flavors indexed at 1 and 4 sum up to 4.
For the 2nd test case, the amount M = 4 and the flavors indexed at 1 and 2 sum up to 4.