Ice Cream Parlor

HackerRank

Problem Statement

Sunny and Johnny together have M dollars and want to spend the amount at an ice cream parlour. The parlour offers N flavors, and they want to choose 2 flavors so that they end up spending the whole amount.

You are given a list of cost of these N flavors. The cost of i^{th} flavor is denoted by (c_i). You have to display the indices of 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: The first line contains M. The second line contains N. The third line contains N single space separated integers denoting the price of each flavor. Here, i^{th} integer denotes c_i.

Output Format

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

Constraints

$1 \leq T \leq 50$
$2 \leq M \leq 10000$
$2 \leq N \leq 10000$
$1 \leq c_i \leq 10000$
The prices of two items may be 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 1^{st}, the amount M = 4 and there are 5 flavors at the store. The flavors indexed at 1 and 4 sums to 4. For the 2^{nd} test case, the amount M = 4 and the flavors indexed at 1 and 2 sums to 4.