

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

$$1 \leq T \leq 50$$

$$2 \leq M \leq 10000$$

$$2 \leq N \leq 10000$$

$$1 \leq c_i \leq 10000, \text{ where } i \in [1, N]$$

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.