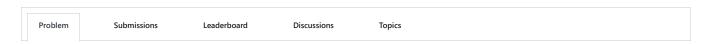


Ice Cream Parlor





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 1^{st} , 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 2^{nd} test case, the amount M = 4 and the flavors indexed at 1 and 2 sum up to 4.

Related Topics
Binary Search
Submissions: 20229
Max Score: 30
Difficulty: Easy
More

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```
1 ▼import java.io.*;
2 import java.util.*;
3 import java.text.*;
   import java.math.*;
5 import java.util.regex.*;
7 ▼public class Solution {
8
9 ▼
       public static void main(String[] args) {
           /* Enter your code here. Read input from STDIN. Print output to STDOUT. Your class should be named Solution. */
10
            Scanner read = new Scanner(System.in);
11
12
            int t = read.nextInt();
13 ▼
            for(int i=0;i<t;i++){
                int m = read.nextInt();
14
15
                int flavors = read.nextInt();
16
                int[] cost = new int[flavors];
17 ▼
                for(int j=0;j<flavors;j++){</pre>
18
                    cost[j]=read.nextInt();
19
20
                int temp=m;
                for (int k = 0; k < flavors; k++) {
21
                    for (int 1 = k; 1 < flavors; 1++) {
22 🔻
                        if (k == 1)
2.3
                            continue;
24
25 ▼
                        else {
26
                            if (cost[k] + cost[l] > temp)
27
                                continue;
                            else if (cost[k] + cost[1] == temp) {
28 ▼
                                System.out.print((k+1) + " " + (1+1));
29
30
31
32
                    }
33
34
35
36
                System.out.println();
37
38
39
                                                                                                                      Line: 39 Col: 2
                    ☐ Test against custom input
                                                                                                             Run Code
                                                                                                                         Submit Code
1 Upload Code as File
                                             Congrats, you solved this challenge!
                ✓ Test Case #0
                                                           ✓ Test Case #1
                                                                                                     ✓ Test Case #2
                                                                                         You've earned 30.00 points!
                                                                                                                  Next Challenge
```

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