

Hash Tables: Ice Cream Parlor ★

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Each time Sunny and Johnny take a trip to the Ice Cream Parlor, they pool their money to buy ice cream. On any given day, the parlor offers a line of flavors. Each flavor has a cost associated with it.

Given the value of *money* and the *cost* of each flavor for *t* trips to the Ice Cream Parlor, help Sunny and Johnny choose two distinct flavors such that they spend their entire pool of money during each visit. ID numbers are the 1- based index number associated with a *cost*. For each trip to the parlor, print the ID numbers for the two types of ice cream that Sunny and Johnny purchase as two space-separated integers on a new line. You must print the smaller ID first and the larger ID second.

Example

cost = [2, 1, 3, 5, 6]

money = 5

They would purchase flavor ID's **1** and **3** for a cost of **2 + 3 = 5**. Use **1** based indexing for your response.

Note:

- Two ice creams having unique IDs *i* and *j* may have the same cost (i.e., $cost[i] \equiv cost[j]$).
- There will always be a unique solution.

Function Description

Complete the function whatFlavors in the editor below.

whatFlavors has the following parameter(s):

- int cost[n] the prices for each flavor
- int money: the amount of money they have to spend

Prints

- int int: the indices of the two flavors they will purchase as two space-separated integers on a line

Input Format

The first line contains an integer, *t*, the number of trips to the ice cream parlor.

Each of the next *t* sets of **3** lines is as follows:

- The first line contains *money*.
- The second line contains an integer, *n*, the size of the array *cost*.
- The third line contains *n* space-separated integers denoting the *cost[i]*.

Constraints

- $1 \leq t \leq 50$
- $2 \leq money \leq 10^9$
- $2 \leq n \leq 5 * 10^4$
- $1 \leq cost[i] \leq 10^9$

Sample Input

STDIN	Function
-----	-----
2	t = 2
4	money = 4

```
5      cost[] size n = 5
1 4 5 3 2  cost = [1, 4, 5, 3, 2]
4      money = 4
4      cost[] size n = 4
2 2 4 3    cost = [2, 2, 4, 3]
```

Sample Output

```
1 4
1 2
```

Explanation

Sunny and Johnny make the following two trips to the parlor:

1. The first time, they pool together **money = 4** dollars. There are five flavors available that day and flavors **1** and **4** have a total cost of **1 + 3 = 4**.
2. The second time, they pool together **money = 4** dollars. There are four flavors available that day and flavors **1** and **2** have a total cost of **2 + 2 = 4**.

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Language

C#



```
1  using System.CodeDom.Compiler;
2  using System.Collections.Generic;
3  using System.Collections;
4  using System.ComponentModel;
5  using System.Diagnostics.CodeAnalysis;
6  using System.Globalization;
7  using System.IO;
8  using System.Linq;
9  using System.Reflection;
10 using System.Runtime.Serialization;
11 using System.Text.RegularExpressions;
12 using System.Text;
13 using System;
14
15 class Result
16 {
17
18     /*
19      * Complete the 'whatFlavors' function below.
20      *
21      * The function accepts following parameters:
22      * 1. INTEGER_ARRAY cost
23      * 2. INTEGER money
24      */
25
26     public static void whatFlavors(List<int> cost, int money)
27     {
```

Line: 64 Col: 1

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Run Code

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