

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.

For example, there are **n = 5** flavors having **cost = [2, 1, 3, 5, 6]**. Together they have **money = 5** to spend. 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] ≡ cost[j]**).
- There will always be a unique solution.

**Function Description**

Complete the function `whatFlavors` in the editor below. It must determine the two flavors they will purchase and print them as two space-separated integers on a line.

`whatFlavors` has the following parameter(s):

- `cost`: an array of integers representing price for a flavor
- `money`: an integer representing the amount of money they have to spend

**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**

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

**Output Format**

Print two space-separated integers denoting the respective indices for the two distinct flavors they choose to purchase in ascending order. Recall that each ice cream flavor has a unique ID number in the inclusive range from **1** to **|cost|**.

**Sample Input**

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

**Sample Output**

```
1 4
1 2
```

**Explanation**

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

- 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**.
- 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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Max Score	35
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