# Hash Tables: Ice Cream Parlor 

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., $\operatorname{cost}[i] \equiv \operatorname{cost}[j]$ ).
- 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 $\operatorname{cost}[i]$.


## Constraints

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


## Sample Input

```
STDIN Function
----- --------
2 t = 2
4 money = 4
5 cost[] size n = 5
145 3 2 cost = [1, 4, 5, 3, 2]
4 money = 4
4 cost[] size n = 4
2 4 3 cost = [2, 2, 4, 3]
```


## Sample Output

```
    14
    12
```


## 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 $2+2=4$.
