

Two friends like to pool their money and go to the ice cream parlor. They always choose two distinct flavors and they spend all of their money.

Given a list of prices for the flavors of ice cream, select the two that will cost all of the money they have.

**Example.**  $m = 6$   $cost = [1, 3, 4, 5, 6]$

The two flavors that cost **1** and **5** meet the criteria. Using **1**-based indexing, they are at indices **1** and **4**.

Function Description

Complete the icecreamParlor function in the editor below.

icecreamParlor has the following parameter(s):

- int m: the amount of money they have to spend
- int cost[n]: the cost of each flavor of ice cream

Returns

- int[2]: the indices of the prices of the two flavors they buy, sorted ascending

Input Format

The first line contains an integer,  $t$ , the number of trips to the ice cream parlor. The next  $t$  sets of lines each describe a visit.

Each trip is described as follows:

- The integer  $m$ , the amount of money they have pooled.
- The integer  $n$ , the number of flavors offered at the time.
- $n$  space-separated integers denoting the cost of each flavor:  $cost[1], cost[2], \dots, cost[n]$ .

**Note:** The index within the cost array represents the flavor of the ice cream purchased.

Constraints

- $1 \leq t \leq 50$
- $2 \leq m \leq 10^4$
- $2 \leq n \leq 10^4$
- $1 \leq cost[i] \leq 10^4, \forall i \in [1, n]$
- There will always be a unique solution.

Sample Input

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

Sample Output

1 4
1 2

Explanation

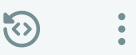
Sunny and Johnny make the following two trips to the parlor:

- The first time, they pool together  $m = 4$  dollars. Of the five flavors available that day, flavors **1** and **4** have a total cost of  $1 + 3 = 4$ .
- The second time, they pool together  $m = 4$  dollars. Of the four flavors available that day, flavors **1** and **2** have a total cost of  $2 + 2 = 4$ .

Change Theme

Language

Python 3



```
1  #!/bin/python3
2
3  import math
4  import os
5  import random
6  import re
7  import sys
8
9  #
10 # Complete the 'icecreamParlor' function below.
11 #
12 # The function is expected to return an INTEGER_ARRAY.
13 # The function accepts following parameters:
14 #   1. INTEGER m
15 #   2. INTEGER_ARRAY arr
16 #
17
18 def icecreamParlor(m, arr):
19     # Write your code here
20     map = {}
21     for idx, price in enumerate(arr):
22         if m - price in map:
23             return [map[m-price], idx+1]
24         map[price] = idx+1
25
26
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39
40
```

Line: 64 Col: 1

Upload Code as File

☐ Test against custom input

Run Code

Submit Code

## Congratulations

You solved this challenge. Would you like to challenge your friends?



Test case 0

Compiler Message

Test case 1



Success

Test case 2



Input (stdin)

Download

Test case 3

```
1 2
2 4
3 5
4 1 4 5 3 2
5 4
6 4
7 2 2 4 3
```