

# code jam

```
print "hello, world!"
```

Practice Mode Rank: 5027 Score: 0 [vincent.lequang@gmail.com](#) | [Contest scoreboard](#) | [Sign out](#)

Round 1A 2015

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## Problem B. Haircut

This contest is open for practice. You can try every problem as many times as you like, though we won't keep track of which problems you solve. Read the [Quick-Start Guide](#) to get started.

Small input  
11 points

Solve B-small

Large input  
22 points

Solve B-large

### Problem

You are waiting in a long line to get a haircut at a trendy barber shop. The shop has **B** barbers on duty, and they are numbered 1 through **B**. It always takes the **k**th barber exactly **M<sub>k</sub>** minutes to cut a customer's hair, and a barber can only cut one customer's hair at a time. Once a barber finishes cutting hair, he is immediately free to help another customer.

While the shop is open, the customer at the head of the queue always goes to the lowest-numbered barber who is available. When no barber is available, that customer waits until at least one becomes available.

You are the **N**th person in line, and the shop has just opened. Which barber will cut your hair?

### Input

The first line of the input gives the number of test cases, **T**. **T** test cases follow; each consists of two lines. The first contains two space-separated integers **B** and **N** -- the number of barbers and your place in line. The customer at the head of the line is number 1, the next one is number 2, and so on. The second line contains **M<sub>1</sub>**, **M<sub>2</sub>**, ..., **M<sub>B</sub>**.

### Output

For each test case, output one line containing "Case #x: y", where x is the test case number (starting from 1) and y is the number of the barber who will cut your hair.

### Limits

$1 \leq T \leq 100$ .

$1 \leq N \leq 10^9$ .

### Small dataset

$1 \leq B \leq 5$ .

$1 \leq M_k \leq 25$ .

### Large dataset

$1 \leq B \leq 1000$ .

$1 \leq M_k \leq 100000$ .

### Submissions

#### Mushroom Monster

|     |   |
|-----|---|
| 7pt | Not attempted<br>4850/5156 users correct<br>(94%) |
| 8pt | Not attempted<br>4757/4844 users correct<br>(98%) |

#### Haircut

|      |   |
|------|---|
| 11pt | Not attempted<br>2932/4720 users correct<br>(62%) |
| 22pt | Not attempted<br>1715/2681 users correct<br>(64%) |

#### Logging

|      |   |
|------|---|
| 18pt | Not attempted<br>1150/1668 users correct<br>(69%) |
| 34pt | Not attempted<br>354/673 users correct<br>(53%)   |

### Top Scores

|               |     |
|---------------|-----|
| Burunduk1     | 100 |
| sourspinach   | 100 |
| Kirino        | 100 |
| winger        | 100 |
| cgy4ever      | 100 |
| niquefa.diego | 100 |
| tozangezan    | 100 |
| ACMonster     | 100 |
| MauricioC     | 100 |
| kriii         | 100 |

## Sample

| Input | Output     |
|-------|------------|
| 3     | Case #1: 1 |
| 2 4   | Case #2: 3 |
| 10 5  | Case #3: 1 |
| 3 12  |            |
| 7 7 7 |            |
| 3 8   |            |
| 4 2 1 |            |

In Case #1, you are the fourth person in line, and barbers 1 and 2 take 10 and 5 minutes, respectively, to cut hair. When the shop opens, the first customer immediately has the choice of barbers 1 and 2, and she will choose the lowest-numbered barber, 1. The second customer will immediately be served by barber 2. The third customer will wait since there are no more free barbers. After 5 minutes, barber 2 will finish cutting the second customer's hair, and will serve the third customer. After 10 minutes, both barbers 1 and 2 will finish; you are next in line, and you will have the choice of barbers 1 and 2, and will choose 1.

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