

# M&M Game

[English](#)

[Vietnamese](#)

Little John is playing very funny game with his younger brother. There is one big box filled with M&Ms of different colors. At first John has to eat several M&Ms of the same color. Then his opponent has to make a turn. And so on. Please note that each player has to eat at least one M&M during his turn. If John (or his brother) will eat the last M&M from the box he will be considered as a loser and he will have to buy a new candy box.

Both of players are using optimal game strategy. John starts first always. You will be given information about M&Ms and your task is to determine a winner of such a beautiful game.

## Input

The first line of input will contain a single integer  $T$  – the number of test cases. Next  $T$  pairs of lines will describe tests in a following format. The first line of each test will contain an integer  $N$  – the amount of different M&M colors in a box. Next line will contain  $N$  integers  $A_i$ , separated by spaces – amount of M&Ms of  $i$ -th color.

## Constraints

$1 \leq T \leq 474$ ,

$1 \leq N \leq 47$ ,

$1 \leq A_i \leq 4747$

## Output

Output  $T$  lines each of them containing information about game winner. Print “John” if John will win the game or “Brother” in other case.

## Sample

**Input:**

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

**Output:**

```
John
Brother
```