

# Barcelona

## Problem ID: a10p03barcelona

Arnar, Benni and Unnar were at the airport in Barcelona on their way to a competitive programming training camp. When the plane had landed they exited and went to the baggage claim. When they arrived there was no baggage on the conveyor belts. After a few minutes the baggage started trickling in. When Benni noticed this he loudly proclaimed “My bag’s first! No, it’s second first! No... it’s fourth first. No wait...”

Given a list of bags and a number denoting Benni’s bag, can you help Benni find how first his bag is?



Image from flickr.com

### Input

First there is a line with two integers  $n$  and  $k$ , the number of bags and Benni’s bag. It will always hold that  $1 \leq n \leq 10^5$  and  $-10^9 \leq k \leq 10^9$ . Next there is a line with  $n$  integers separated by spaces,  $a_1, a_2, \dots, a_n$ . For each  $1 \leq i \leq n$  it holds that  $-10^9 \leq a_i \leq 10^9$ . No two bags are given by the same number and Benni’s bag always appears in the list.

### Output

Print a single line. If Benni’s bag is first print `fyrst`, if it’s the second print `naestfyrst`. Otherwise print a single number denoting how first it is followed by the word `fyrst` after the number.

### Scoring

Group	Points	Constraints
1	10	$1 \leq n \leq 100$
2	90	No further constraints

#### Sample Input 1

```
8 0
0 -1 2 -3 4 -5 6 -7
```

#### Sample Output 1

```
fyrst
```

#### Sample Input 2

```
5 42
1337 42 -6 9 420
```

#### Sample Output 2

```
naestfyrst
```

#### Sample Input 3

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

#### Sample Output 3

```
7 fyrst
```