

7181 Olympic Parade

SEERC organizing committee decided to make this year's opening ceremony in unusual way — organize a parade of contestants on the city streets. This year N people (contestants, coaches and guests), that represent universities from participating countries, will go on the streets, trying to impress spectators by original costumes and loud songs. Each university is represented by a group of people and has a unique identifier (ID) that is carried by each person in the group. To make the parade well organised and entertaining, each group should be lined up in several rows, each consisting of K people.

Only one university was not able to line up according to the mentioned rule, and you need to find it's ID.

Input

The input file contains several test cases, each of them as described below.

The first line at input contains integer N and K , separated by a single space ($2 \leq N \leq 1000000$, $2 \leq K \leq N$). Following N lines contain IDs C_1, C_2, \dots, C_n ($0 \leq C_i \leq 1000000000$, $1 \leq i \leq N$) of N people.

Output

For each test case, the single line at output should contain one integer — the answer for the problem.

Sample Input

```
10 3
1
1
2
3
1
3
3
2
2
2
```

Sample Output

```
2
```