samba 100 points

Source code: **samba.c, samba.cpp, samba.pas**

Input files: **samba.in**

Output files: **samba.out**

Time limit: **1.0 s**

Memory limit: 2 MB

Every year Rio de Janeiro is the host of The Rio samba dance festival. In this year's edition the **n** dancers representing the samba schools around the world will dance on the streets trying to impress the public by both dance and clothes. **Each samba school** is represented by a single group of dancers and has a unique identification number (**ID**) which will be worn by all of its members. Within a group, all members are wearing the same suits, with the identification number attached, when moving **in formation** on the streets of Rio.

For everything to go well, the organizers require each group to arrange its members on multiple rows, each formed exactly of **k** dancers.

Task

Knowing that **only one samba school** couldn't organize its dancers according to the conditions, your task is to find its ID.

Description of input

The first line of the input file **samba.in** contains the space-separated numbers **n** and **k**. The following **n** lines contain the IDs ($C_1, C_2, \ldots, C_n$) of the **n** dancers.

Description of output

The first line of the output file **samba.out** contains a single value, representing the answer to the task.

Constraints

- **40% of tests has n ≤ 1 000**
- **1 ≤ n ≤ 1 000 000**
- **2 ≤ k ≤ 1 000**
- **0 ≤ C_i ≤ 1 000 000 000, 1 ≤ i ≤ n**

Example

samba.in	samba.out	Remarks
11 2 123 1678 43 123 123 43 123 43 123 1678 123	43	There are **11** dancers which belong to the samba schools identified by the IDs **123**, **1678** and **43**. Dancers of each samba school have to arrange on rows formed of exactly **2** persons. One samba school has the **123** ID and **6** dancers which can be arranged on **3** rows, each consisting of **2** persons. Another samba school, with the **1678** ID, has **2** dancers which can be arranged on a single row. The school with the ID **43** has **3** dancers which cannot be organized according to the conditions.