Non-Divisible Subset



Given a set of distinct integers, print the size of a maximal subset of S where the sum of any $\mathbf{2}$ numbers in S' is *not* evenly divisible by \mathbf{k} .

Input Format

The first line contains 2 space-separated integers, n and k, the number of values in S and the *non* factor. The second line contains n space-separated integers describing S[i], the unique values of the set.

Constraints

- $1 \le n \le 10^5$
- $1 \le k \le 100$
- $1 \le S[i] \le 10^9$
- All of the given numbers are distinct.

Output Format

Print the size of the largest possible subset (S').

Sample Input

```
4 3
1 7 2 4
```

Sample Output

3

Explanation

The sums of all permutations of two elements from $S = \{1, 7, 2, 4\}$ are:

```
1+7=8
1+2=3
1+4=5
7+2=9
7+4=11
2+4=6
```

We see that only $S'=\{1,7,4\}$ will not ever sum to a multiple of k=3.