E. Intersection of sets

Time Limit: 1.0 Seconds Memory Limit: 65536K Multiple test files

As a student, we all know set in math. In a set, there are some elements, just like integers,letters,words and so on. Now we have two set A and B. Their elements are integers. Now I want to know the size of the intersection of the Set A and Set B.

Input

For each test case, the first line contains two integers M and N(1<=M<=4000,1<=N<=160000).The following M lines,each line has a integer which is an element in Set A.The next following N lines, each line has a integer which is an element in Set B. The elements in A and B are all non-negative integers(0~2^31).

Output

For each test case, output the size of the intersection of Set A and Set B.

Sample Input

```
5 5
1
2
3
4
5
2
4
6
8
10
```

Sample Output

```
2
```

Source:

Source:

Problem ID in problemset: 3843