Search I

Time Limit : 1 sec , Memory Limit : 131072 KB

You are given a sequence of *n* integers S and a sequence of different *q* integers T. Write a program which outputs C, the number of integers in T which are also in the set S.

Input   **(linear_search.in)**

In the first line *n* is given. In the second line, *n* integers are given. In the third line *q* is given. Then, in the fourth line, *q* integers are given.

Output **(linear_search.out)**

Print C in a line.

Constraints

- n ≤ 10000
- q ≤ 500
- $0 \leq$ an element in S $\leq 10^9$
- $0 \leq$ an element in T $\leq 10^9$

Sample Input 1

```
5
1 2 3 4 5
3
3 4 1
```

Sample Output 1

```
3
```

Sample Input 2

```
3
3 1 2
```

```
1
5
```

Sample Output 2

```
0
```

Sample Input 3

```
5
1 1 2 2 3
2
1 2
```

Sample Output 3

```
2
```