Problem C. C

Time limit 1000 ms
Mem limit 131072 kB
OS Linux

Search II

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

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

Print C in a line.

Constraints

- Elements in S is sorted in ascending order
- n ≤ 100000
- q ≤ 50000
- $0 \le \text{an element in } S \le 10^9$
- $0 \le \text{an element in } T \le 10^9$

Sample Input 1

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

Sample Output 1

3

Sample Input 2

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

Sample Output 2

0

Sample Input 3

Sample Output 3

2

Notes