

Passport Checking - proposed by Ong Shien Jin

This task is inspired by the recent MH370 stolen passport incident.

The Interpol database contains a list of **N** stolen passport numbers. We have another list of **M** passport numbers to check if they are stolen or not.

Input

- The first line of the input contains an integer **N**.
- The next **N** lines contains the list of **N** stolen passport numbers, one passport number per line.
- The next line of the input contains an integer **M**.
- The next **M** lines contains the list of **M** passport numbers, one passport number per line.

Output

Output the total number of stolen passports in the list of **M** passports.

Constraints

- Time Limit: 1s
- Memory Limit: 64MB
- $1 \leq \mathbf{N} \leq 100,000$
- $1 \leq \mathbf{M} \leq 100,000$
- Passport numbers are alphanumeric (combination of alphabetic and numeric characters) and are of length at most 15

Subtasks

Subtask 1 (20 points): $\mathbf{N} \leq 1,000$ and $\mathbf{M} \leq 1,000$

Subtask 2 (80 points): $\mathbf{N} \leq 100,000$ and $\mathbf{M} \leq 100,000$

Sample Input 1

10
I220232074
D327045452
L261687170
H720628600
T181830847
I108428623
J316167657
M520837168
H364436380
J531555744
5
U133207838
D327045452
S374500074
U882158042
H364436380

Sample Output 1

2

Both D327045452 and H364436380 are stolen passports.