

Problem F2302

Text Processing

After shocked by your little brother, you decided to study harder. Since several days ago, your python class teacher taught you the concept of data mining, you would like to try some task on your own. You find an article about an event. Usually these articles first introduce about the event and then put some comments on the event received from different people. You would like to know how the population think of this event, so you firstly omit the first l words which you think they're the description of the event, and then count the occurrence of some key word.

Input

The input consists of 3 lines.

The first line contains the content of the article. It contains n ($1 \leq n \leq 1000$) words separated by blank space. Each word contains at least 1 and at most 20 lower-case characters. For simplicity, the punctuation mark is omitted.

The second line contains the integer l ($0 \leq l < n$).

The third line contains the key word.

Output

Print the occurrence of the key word after removing first l words.

Sample Input

```
last night a car ran into a wall the drunk driver is heavily injured
peter said the driver it is wrong to drive after drink wine
10
wrong
```

Sample Output

```
1
```