

Card game

Nobita and Chaien have some magic cards and want to play together. Each player will choose a same number of cards and compare to the other's cards. If the cards in same position are same, it is a draw set. Chaien had choose his cards and Notita ask you to help him choose a list of continous cards which leads to as much draw set as possible. A card is represented by an characters and list of cards is a string. If there is many solutions, output index of the first substring which Nobita can choose.

Input

The first line is the string representing the cards Chaien chose.(denoted by c)

The first line is the string representing the cards Nobita have.(denoted by s)

Output

The index of the first substring which meet to the requirements and number of cards. Please note the $(|s| \geq |c|)$.

Example

Input:

```
abcdezqlowtp  
abcdefghijklm
```

Output:

```
0 5
```

Input:

```
acb  
dbadbeacb
```

Output:

```
6 3
```