

# Count Occurrences

## Problem ID: a06p01countoccurences

Write a program that, given a string  $s$  and a character  $c$ , prints out the indices of where  $c$  appears in  $s$ . Note that the program must be case sensitive. For example,  $M$  appears in the string `Mississippi`, but  $m$  does not. All characters in the input and output are either a letter in the English alphabet, digit, space or punctuation.

### Input

Input consists of two lines.

The first line contains the string  $s$ . The length of  $s$  is at most  $10^6$ . The second line contains the character  $c$ .

### Output

The output should consist of  $l$  lines, where  $l$  is the number of times  $c$  appears in  $s$ .

The  $i$ -th line of the output should contain the index of the  $i$ -th match.

#### Sample Input 1

```
my dogs name is mary
m
```

#### Sample Output 1

```
0
10
16
```

#### Sample Input 2

```
Mississippi is a state in the Southeastern region of the United States.
s
```

#### Sample Output 2

```
2
3
5
6
13
17
37
69
```

#### Sample Input 3

```
The missile knows where it is at all times. It knows this because it knows where it isn't
S
```

#### Sample Output 3