

R10

String Questions

For discord mail to support@learnyard.com

Input

Input string: I love programming. I love Codeforwin.

Input character to search: o → target



Output

'o' found at index: 3, 9, 23, 28, 32

I love pro
0 1 2 3 4 5 6 7 8 9
↖ ↗ ↘ ↙

for loop

Explanation slide

T = 'a'

i
↓

0 --- 7 (0 - - - l-1)

0 5

0	1	2	3	4	5	6	7
a	b	c	d	e	a	b	c
↑	↑	↑	↑	↑	↑		
✓	x	x	x	x	✓		

$\leq l-1$

Example

Input

Input string: I love programming. I love Codeforwin.
Input word to search: love

Output

'love' is found at index: 2
'love' is found at index: 22

love }
I - l }

0 1 2 3
I love pro
↑
;

2nd
love
love

love

target

Explanation slide

sentence

ϵ $\text{for (int } i = 0; i < s.length(); i++)$

b c d
↑
i

a b c
↑

ith → sentence
0th → target → y

3

abc

a	b	c	d	e	f	a	b	c
1	x	x	x	x	x			

↑
i

Example

Input

Input string: I love Codeforwin.

Output

Maximum occurring character: 'o'

Sentence

0 → 3

frequency
array

map

$$\left\{ \begin{array}{l} a \rightarrow 3 \\ b \rightarrow 2 \\ c \rightarrow \\ d \rightarrow \end{array} \right.$$

Fixing Technique

a b c d e f a b c a

↑
0

$a \rightarrow 2$

Explanation slide

a b c d e f a b d d d

↑
0
1

1 → 1

$f > \text{max } f$

$\text{max } f = 4$

$\text{max ch} = 'd'$

$d = 4$

$f = 4$

$f > \text{max } f$

$\text{max } f = 4$
 $\text{max ch} = d$

Example

Input

Input string : I love learning programming at Codeforwin

Output

Reversed order of words:
Codeforwin at programming learning love I

"I", "love",

array
reverse

Two pointer

"abc def ghi" → 3
↓
words
["abc", "def", "ghi"]

Explanation slide

Reverse

array

→ "ghi", "def", "abc"

Reverse

Inbuilt in

"abc_def_ghi"

2 space

word = 2 + 1

= 3

word = "ghi"

✓ ["abc", "def", "ghi"] ✓

Thank You!

Please practice more questions and examples as above !!