

Take a **String str** as input and print the **sum** of all **substrings** of a string representing a **number**.

Eg: str="1234"

Sum = 1 + 2 + 3 + 4 + 12 + 23 + 34 + 123 + 234 + 1234 = 1670

string str = "1234"

1 2 3 4

(1)
12
123
1234

2
23
234

3
34

4

int num = 0;

for (k = 1; k <= j; k++)

value = (str.charAt(i) - '0') * 10 + value;

num = num + value;

sum += num;

num = 0 * 10 + 1 = 1
= 1 * 10 + 2

120 + 3 = 123 * 10 + 4 = 1234

Take a string as input. Print the count of all the substrings that start with 'A' and end with 'A'. Also print the length of the longest such substring in the second line. In the third line, print that longest substring.

If no such substring exists, print -1.

- ① Count $A \rightarrow A$ ② length of longest substring $\Rightarrow A - A$ ③ Print

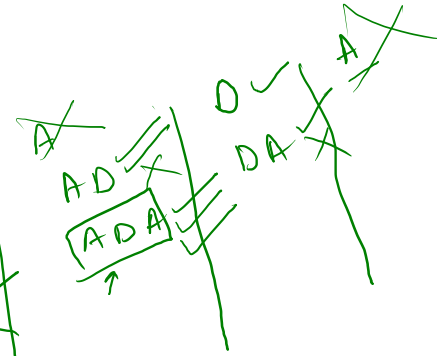
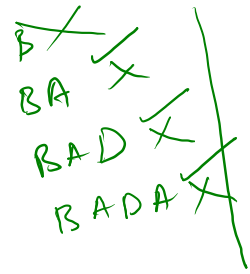
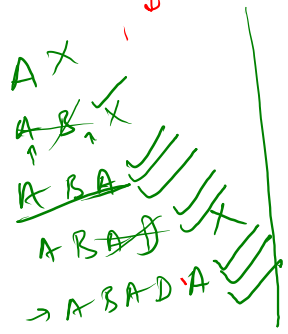
Sample Input 0

ABADA

Sample Output 0

3
5
ABADA

STR = "ABADA"



Count = 3
maxLen = 5
longest string = "ABADA"

Problem

Submissions

Leaderboard

Discussions

Given a string str as a string input. Count the maximum consecutive ones in the string.

Input Format

A String

Constraints

$1 \leq \text{str.length}() \leq 100000$

Output Format

An integer value

Sample Input 0

0110111011211111

Sample Output 0

5

str = "0110111011211111"

Handwritten annotations on the string:

- Arrows pointing to each character.
- Underlines under the first '11' (count 2) and the second '11' (count 3).
- A large circle around the '111' sequence (count 5).
- A green line connecting the '111' sequence to the sample output '5'.

count = 0, 1, 2, 3, 4, 5

Handwritten code in C++:

```

int count = 0;
int maxlen = 0;

for (int i = 0; i < str.length(); i++) {
    char ch = str[i];
    if (ch == '1') {
        count++;
    } else {
        if (count > maxlen) {
            maxlen = count;
        }
        count = 0;
    }
}

if (count > maxlen) {
    maxlen = count;
}

return maxlen;
    
```

Additional handwritten notes:

- At the top right, a calculation: $10/2 = 5$ with a box around 5.
- Below the code, a note: $\text{count} = 0$ with an arrow pointing to the initialization.
- At the bottom, a note: $\text{maxlen} = \text{count}$ with an arrow pointing to the final assignment.