Find Distance B/W Two Characters

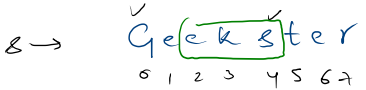
Given a string and two characters. Print the minimum distance between two given characters a and b in a string.

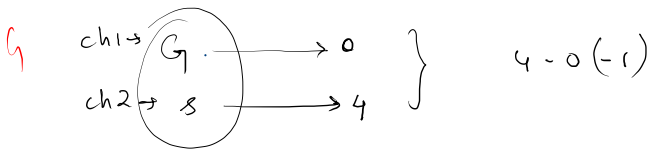
Sample Input 0

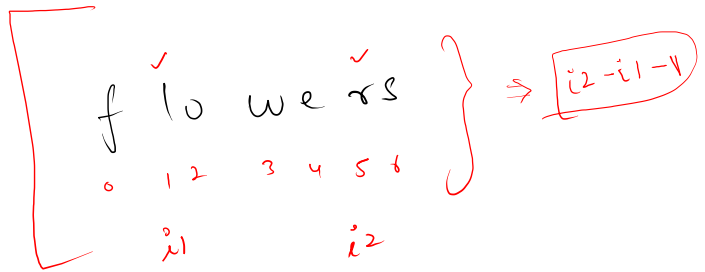
```
Geeks
G
s
```

Sample Output 0

```
3
```








```java
import java.io.*;
import java.util.*;

public class Solution {

    public static void main(String[] args) {
        Scanner scn = new Scanner(System.in);
        String s = scn.next();
        char c1 = scn.next().charAt(0);
        char c2 = scn.next().charAt(0);

        int i1 = s.indexOf(c1);
        int i2 = s.indexOf(c2);

        System.out.println(i2-i1-1);

    }
}
```

mohitkumar

0 1 2 3 4 5 6 7 8 9

a b

Subarray

10 20 30 40

10

10 20

10 20 30

10 20 30 40

20

20 30

20 30 40

30

30 40

40

Substring

a b c d .

a

ab

abc

abcd

b

bc

bcd

c

cd

d

s → "abcd"
0 1 2 3

- a
- ab
- abc
- abcd

- b
- bc
- bcd

- c
- cd

- d

0	0 1 2 3
1	1 2 3
2	2 3
3	3

s.substring(2) → single parameter

↳ start with idx 2 till end

→ cd

---

s → geekster
0 1 2 3 4 5 6 7

s.substring(2) → ekster

s.substring(5) → ter

s → geek ster

0 1 2 3 4 5 6 7

s.substring (2, 8)

2 parameters → s.substring (1, 5)

↳ means start from 1 & end before 5

[1, 5) ⇒ [1, 4]

ans → eeks.

s → "1234"

int

Integer.parseInt(s)

↓

int → 1234

s → "1234"

"" "1"

"1" "12"

"12" "123"

"123" "1234"

"" "2"

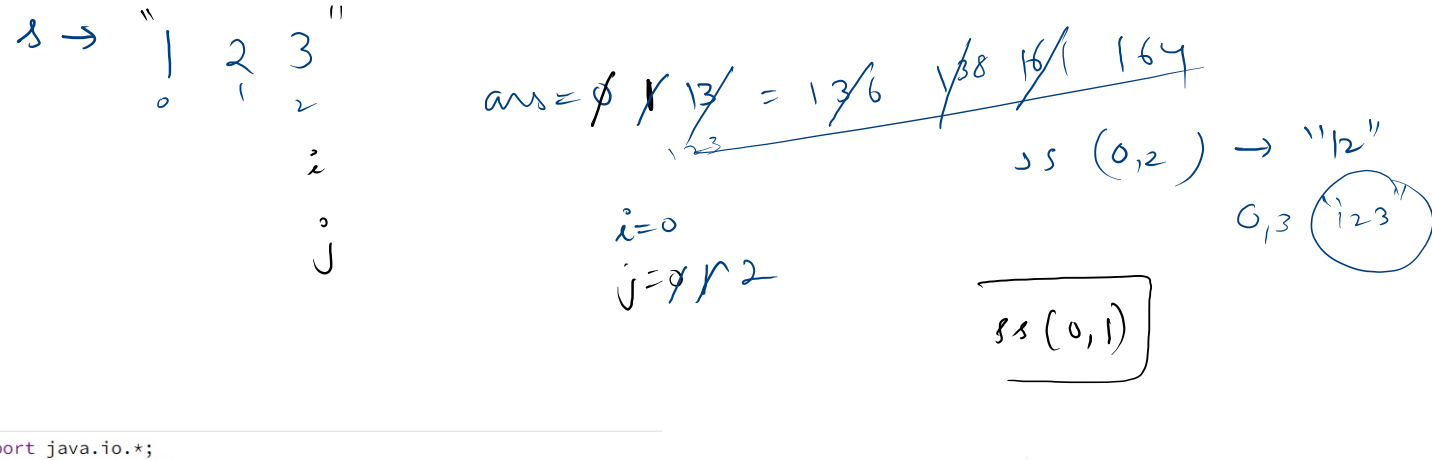
"2" "23"

"23" "234"

3

34

4




```java
import java.io.*;
import java.util.*;

public class Solution {

    public static void main(String[] args) {
        Scanner scn = new Scanner(System.in);
        int ans = 0;
        String s = scn.next();
        for(int i = 0; i < s.length(); i++){
            for(int j = i; j < s.length(); j++){
                String ss = s.substring(i, j+1);
                ans += Integer.parseInt(ss);
            }
        }
        System.out.println(ans);
    }
}
```

Desired String

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**.

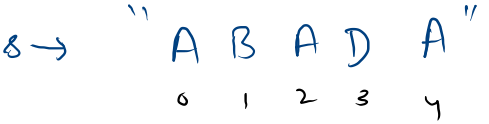
If no such substring exists, print **-1**.

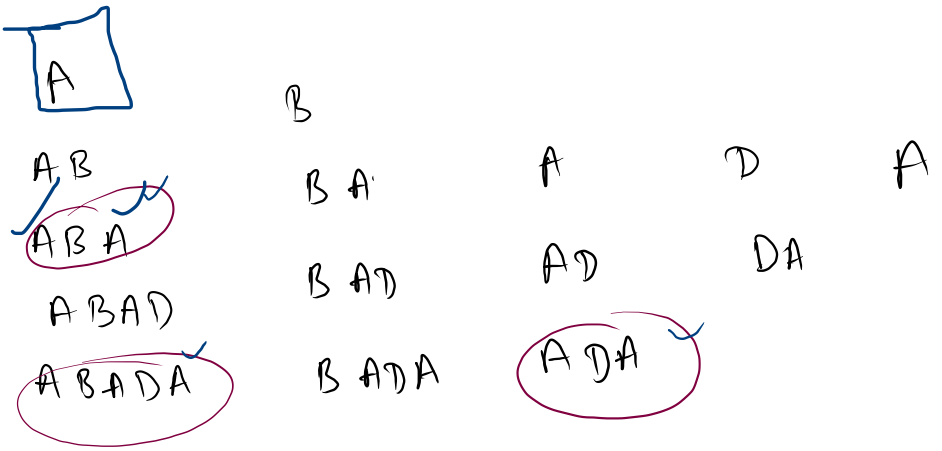
Sample Input 0

```
ABADA
```

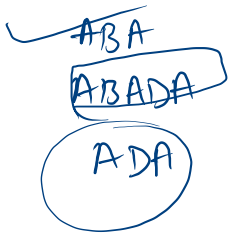
Sample Output 0

```
3
5
ABADA
```





```java
import java.io.*;
import java.util.*;

public class Solution {

    public static void main(String[] args) {
        Scanner scn = new Scanner(System.in);
        String s = scn.next();

        int count = 0;
        String desired = "";
        for(int i = 0; i < s.length(); i++){
            for(int j = i; j < s.length(); j++){
                String ss = s.substring(i, j+1);

                if(ss.length() > 1 && ss.charAt(0) == 'A' && ss.charAt(ss.length()-1) == 'A'){
                    count++;
                    if(ss.length() > desired.length()){
                        desired = ss;
                    }
                }
            }
        }

        if(count == 0){
            System.out.println(-1);
        }else{
            System.out.println(count);
            System.out.println(desired.length());
            System.out.println(desired);
        }

```



"ABADA"

3
5
ABADA

ADA

3 > 0

5 > 3

Power of a String

Take a **String str** as input and calculate the **Power** of the string.

Power of a string is defined as the **maximum length** of **substring** that contains only one **unique** character.

A **substring** is a continuous sequence of characters within a string.

Note: All characters in the string are in **lowercase**.

Sample Input 0

```
abbcccddddeeeeeffgghheecccc
```

Sample Output 0

```
5
```

curr = 1 2

max = ~~0~~ ≠ 3

bbb a cc

2 3 4 5 6 7

i

if → s[i] == s[i-1]

↳ curr++

else → max (curr, max)

curr = 1

aa