

A man, a plan, a canal: Panama

→ X

Character is Letter()
is Digit()
✓

A man, a plan, a canal: Panama

amanaplanacanalpanama

char

term =

9

97-122 // (48-57)

HW_palindromic string 13

```
1 import java.io.*;
2 import java.util.*;
3 import java.text.*;
4 import java.math.*;
5 import java.util.regex.*;
6
7 public class Solution {
8
9     public static void main(String[] args) {
10         /* Enter your code here. Read input from STDIN. Print output to STDOUT. Your class should be named Solution. */
11         Scanner sc = new Scanner(System.in);
12         String str = sc.nextLine().toLowerCase();
13         int n = str.length();
14         String ans = lower(str,n);
15         System.out.println(isPalindrome(ans));
16     }
17     public static String lower(String str,int n){
18         String temp="";
19         for(int i=0;i<n;i++){
20             char ch = str.charAt(i);
21             if(Character.isLetterOrDigit(ch)){
22                 temp+=ch;
23             }
24         }
25         return temp;
26     }
27     public static boolean isPalindrome(String str){
28         int start=0;
29         int end = str.length()-1;
30         while(start<end){
31             if(str.charAt(start)!=str.charAt(end)){
32                 return false;
33             }
34             start++;
35             end--;
36         }
37         return true;
38     }
39 }
```

ABADA

A

AB

ABA — ①

ABAD

ABADA — ②

B

BA

BAD

BADA

A

AD

ADA — ③

D

DA

A

B → ④

⑤

C = 6

$$\frac{5 \times 6}{2} = \frac{30}{2} = 15$$

```

public static void countSubsting(String str,int n){
    int count=0, maxLength=0;
    String ans="";
    for(int i=0;i<n;i++){
        for(int j=i;j<n;j++){
            String s = str.substring(i,j+1);
            if(s.length()>1 && s.charAt(0)=='A' && s.charAt(s.length()-1)=='A'){
                count++;
                if(s.length() > maxLength){
                    maxLength = s.length();
                    ans = s;
                }
            }
        }
    }
    if(count==0){
        System.out.println(-1);
    }else{
        System.out.println(count);
        System.out.println(maxLength);
        System.out.println(ans);
    }
}

```

$C=0, \text{max}=0$

$\text{ans} = ''$

$\text{for (int } i=0; i \leq n; i++)$

$\text{for (int } j=i; j \leq n; j++)$

$\{$

$\text{str.substring}(0, 1);$
 $1-1$

exclusive

$S = ABA$

$A \quad BA \quad D A$

$S-1$

$3-1 = 2$

4

Desired String

Language: java 7

[Open in editor](#)

```
1 import java.io.*;
2 import java.util.*;
3 import java.text.*;
4 import java.math.*;
5 import java.util.regex.*;
6
7 public class Solution {
8
9     public static void main(String[] args) {
10         /* Enter your code here. Read input from STDIN. Print output to STDOUT. Your class should be named Solution. */
11         Scanner sc = new Scanner(System.in);
12         String str = sc.nextLine();
13         int n = str.length();
14         countSubsting(str,n);
15     }
16     public static void countSubsting(String str,int n){
17         int count=0, maxLength=0;
18         String ans="";
19         for(int i=0;i<n;i++){
20             for(int j=i;j<n;j++){
21                 String s = str.substring(i,j+1);
22                 if(s.length()>1 && s.charAt(0)=='A' && s.charAt(s.length()-1)=='A'){
23                     count++;
24                     if(s.length() > maxLength){
25                         maxLength = s.length();
26                         ans = s;
27                     }
28                 }
29             }
30         }
31         if(count==0){
32             System.out.println(-1);
33         }else{
34             System.out.println(count);
35             System.out.println(maxLength);
36             System.out.println(ans);
37         }
38     }
39 }
```

You are screen sharing

Stop Share

Check Subsequence

```
1 import java.io.*;
2 import java.util.*;
3 import java.text.*;
4 import java.math.*;
5 import java.util.regex.*;
6
7 public class Solution {
8
9     public static void main(String[] args) {
10         /* Enter your code here. Read input from STDIN. Print output to STDOUT. Your class should be named Solution. */
11         Scanner sc = new Scanner(System.in);
12         String str = sc.next();
13         String tar = sc.next();
14
15         boolean ans = subsequence(str,tar);
16         if(ans){
17             System.out.println("True");
18         }
19         else{
20             System.out.println("False");
21         }
22     }
23     public static boolean subsequence(String str,String tar){
24         int start=0;
25         int current=0;
26         while(start<str.length() && current < tar.length()){
27             if(str.charAt(start)==tar.charAt(current)){
28                 start++;
29                 current++;
30             }
31             else{
32                 current++;
33             }
34         }
35         if(start==str.length()){
36             return true;
37         }
38         return false;
39     }
40 }
```