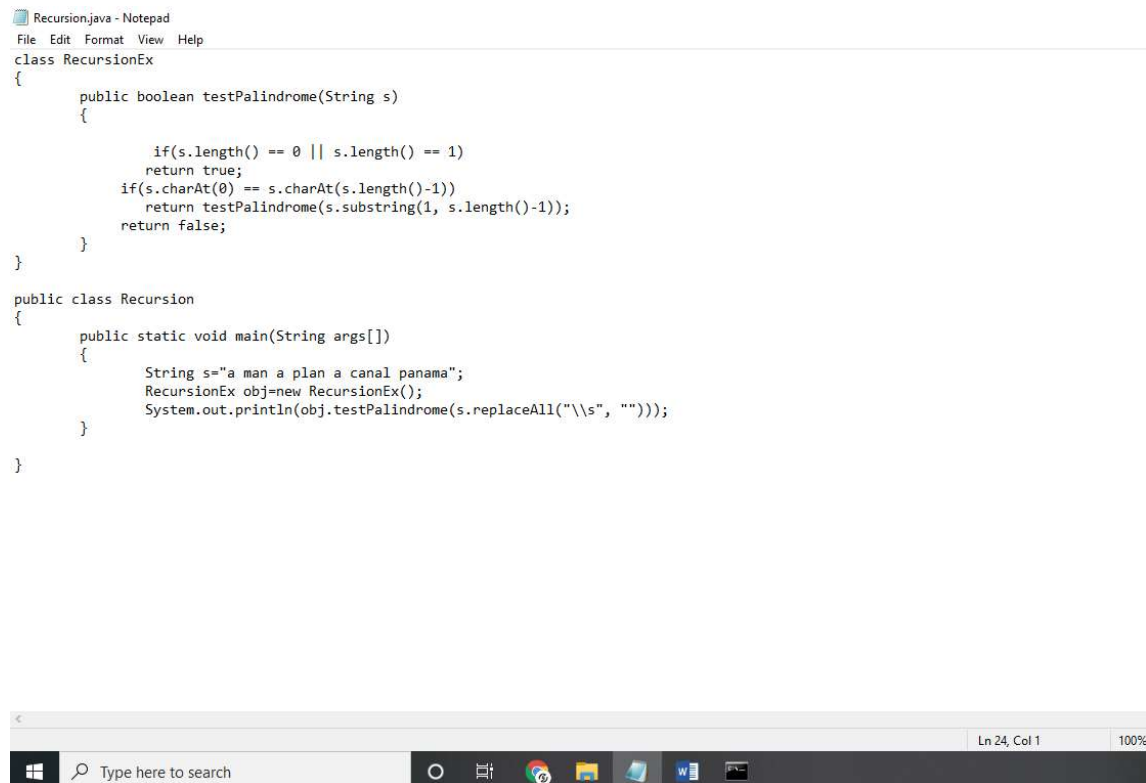


A palindrome is a string that is spelled the same way forward and backward. Some examples of palindromes are “radar,” “able was i ere i saw elba” and (if spaces are ignored) “a man a plan a canal panama.” Write a recursive method testPalindrome that returns boolean value true if the string stored in the array is a palindrome and false otherwise. The method should ignore spaces and punctuation in the string.

Program:



```
Recursion.java - Notepad
File Edit Format View Help
class RecursionEx
{
    public boolean testPalindrome(String s)
    {
        if(s.length() == 0 || s.length() == 1)
            return true;
        if(s.charAt(0) == s.charAt(s.length()-1))
            return testPalindrome(s.substring(1, s.length()-1));
        return false;
    }
}

public class Recursion
{
    public static void main(String args[])
    {
        String s="a man a plan a canal panama";
        RecursionEx obj=new RecursionEx();
        System.out.println(obj.testPalindrome(s.replaceAll("\\s", "")));
    }
}
```

```
class RecursionEx
{
    public boolean testPalindrome(String s)
    {
        if(s.length() == 0 || s.length() == 1)
            return true;
```

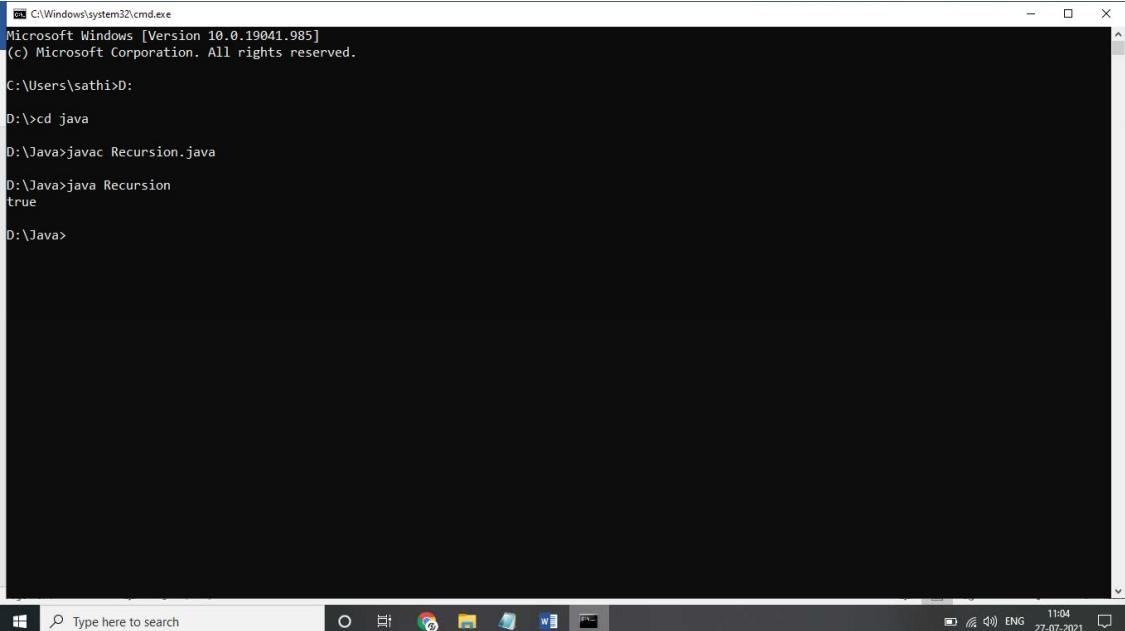
```

        if(s.charAt(0) == s.charAt(s.length()-1))
            return testPalindrome(s.substring(1, s.length()-1));
        return false;
    }
}

public class Recursion
{
    public static void main(String args[])
    {
        String s="a man a plan a canal panama";
        RecursionEx obj=new RecursionEx();
        System.out.println(obj.testPalindrome(s.replaceAll("\\s", "")));
    }
}

```

Output:



```

C:\Windows\system32\cmd.exe
Microsoft Windows [Version 10.0.19041.985]
(c) Microsoft Corporation. All rights reserved.

C:\Users\sathi>D:
D:\>cd java
D:\Java>javac Recursion.java
D:\Java>java Recursion
true
D:\Java>

```