

Count the number of vowels in a given string

```
import java.util.Scanner;
public class Demo {
     static int countVowels(String s) {
            int count = 0;
           for (int i = 0; i < s.length(); i++) {</pre>
                  char c = s.charAt(i);
                  if (c == 'a' || c == 'e' || c == 'i' || c == 'o' || c
== 'u' || c == 'A' || c == 'E' || c == '0' || c == 'I'
                              || c == 'U') {
                        count++;
                  }
            return count;
     }
      public static void main(String[] args) {
           String s = "abcbea";
            System.out.println(countVowels(s));
     }
```



Character count



String Reverse



Palindrome

```
import java.util.Scanner;
public class Demo2 {
     static boolean isPalindrome(String s) {
           int i = 0;
          int j = s.length() - 1;
          while (i <= j) {
                if (s.charAt(i) != s.charAt(j)) {
                      return false;
                i++;
                j--;
           return true;
     }
     public static void main(String[] args) {
           String s = "level";
           System.out.println(isPalindrome(s));
     }
}
```



Space count

```
public class Demo4 {
    static int spaceCount(String s) {
        int count = 0;
        for (int i = 0; i < s.length(); i++) {
            if (s.charAt(i) == ' ') {
                count++;
            }
        }
        return count;
    }

public static void main(String[] args) {
    String s = "How are you";
    spaceCount(s);
}</pre>
```

Word Count

```
public class Demo4 {
    static int wordCount(String s) {
        int count = 0;
        for (int i = 0; i < s.length(); i++) {
            if (s.charAt(i) == ' ') {
                count++;
            }
        }
        return count + 1;
    }

public static void main(String[] args) {
    String s = "How are you";
    wordCount(s);
}</pre>
```



Print All Substring

```
import java.util.Arrays;
public class Demo4 {
     static void printAllSubstring(String st) {
           int n = st.length();
           for (int len = 1; len < n; len++) {</pre>
                 for (int s = 0; s <= (n - len); s++) {</pre>
                      for (int e = s; e <= (s + len) - 1; e++) {
                            System.out.println(st.charAt(e));
                      System.out.println();
                 }
           }
     }
     public static void main(String[] args) {
           String s = "tapacademy";
           printAllSubstring(s);
     }
}
```



Print substring of length 3

```
import java.util.Arrays;
public class Demo4 {
     static void printAllSubstring(String st, int k) {
           int n = st.length();
           for (int s = 0; s \leftarrow (n - k); s++) {
                 for (int e = s; e <= (s + k) - 1; e++) {
                      System.out.println(st.charAt(e));
                 System.out.println();
           }
     }
     public static void main(String[] args) {
           String s = "tapacademy";
           int k = 3;
           printAllSubstring(s,k);
     }
}
```



Print Longest non repeating substring

```
import java.util.Arrays;
public class Demo4 {
     static boolean isPalindrome(String s) {
           int i = 0;
           int j = s.length() - 1;
           while (i <= j) {
                if (s.charAt(i) != s.charAt(j)) {
                      return false;
                }
                i++;
                j--;
           return true;
     }
     static String printLongestPalinSubstring(String st) {
           int n = st.length();
           String res = "";
           for (int len = 1; len < n; len++) {</pre>
                for (int s = 0; s <= (n - len); s++) {
                      String temp = "";
                      for (int e = s; e <= (s + len) - 1; e++) {
                            temp = temp + st.charAt(e);
                      if (isPalindrome(temp)) {
                            if (temp.length() > res.length())
                                 res = temp;
                      }
                }
           return res;
     }
     public static void main(String[] args) {
           String s = "tapacademy";
           System.out.println(printLongestPalinSubstring(s));
     }
}
```



Repeated Strings

https://www.hackerrank.com/challeng es/repeated string/problem

```
import java.io.*;
import java.math.*;
import java.security.*;
import java.text.*;
import java.util.*;
import java.util.concurrent.*;
import java.util.regex.*;
class Result {
     public static long repeatedString(String s, long n) {
           int countA = 0;
           for (int i = 0; i < s.length(); i++) {</pre>
                if (s.charAt(i) == 'a') {
                      countA++;
           long count1 = n / s.length() * countA;
           long count2 = 0;
           for (int i = 0; i < n % s.length(); i++) {</pre>
                 if (s.charAt(i) == 'a') {
                      count2++;
           return count1 + count2;
     }
}
public class Solution {
     public static void main(String[] args) throws IOException {
           BufferedReader bufferedReader = new BufferedReader(new
InputStreamReader(System.in));
           BufferedWriter bufferedWriter = new BufferedWriter(new
FileWriter(System.getenv("OUTPUT PATH")));
           String s = bufferedReader.readLine();
           long n =
```





Game of thrones

https://www.hackerrank.com/challenges/game-of-thrones/problem

```
import java.io.*;
import java.math.*;
import java.security.*;
import java.text.*;
import java.util.*;
import java.util.concurrent.*;
import java.util.regex.*;
class Result {
     public static String gameOfThrones(String s) {
           char[] ar = s.toCharArray();
           Arrays.sort(ar);
           int i = 0;
           int errorCount = 0;
           while (i < ar.length) {</pre>
                 if (i < ar.length - 1 && ar[i] == ar[i + 1]) {</pre>
                       i = i + 2;
                 } else {
                       i++;
                       errorCount++;
                 }
           if (errorCount <= 1) {</pre>
                 return "YES";
           } else {
                 return "NO";
           }
     }
}
public class Solution {
     public static void main(String[] args) throws IOException {
           BufferedReader bufferedReader = new BufferedReader(new
InputStreamReader(System.in));
           BufferedWriter bufferedWriter = new BufferedWriter(new
FileWriter(System.getenv("OUTPUT_PATH")));
           String s = bufferedReader.readLine();
           String result = Result.gameOfThrones(s);
           bufferedWriter.write(result);
           bufferedWriter.newLine();
```



```
bufferedReader.close();
bufferedWriter.close();
}
}
```



Anagram

```
import java.util.Arrays;
public class Demo4 {
     static boolean isAnagram(String s1, String s2) {
           String temp = "";
           for (int i = 0; i < s1.length(); i++) {</pre>
                 if (s1.charAt(i) != ' ') {
                       temp = temp + s1.charAt(i);
                 }
           s1 = temp;
           temp = "";
           for (int i = 0; i < s2.length(); i++) {</pre>
                 if (s2.charAt(i) != ' ') {
                       temp = temp + s2.charAt(i);
                 }
           }
           s2 = temp;
           s1 = s1.toLowerCase();
           s2 = s2.toLowerCase();
           char[] arr1 = s1.toCharArray();
           char[] arr2 = s2.toCharArray();
           Arrays.sort(arr1);
           Arrays.sort(arr2);
           s1 = new String(arr1);
           s2 = new String(arr2);
           return s1.equals(s2);
     }
     public static void main(String[] args) {
           String s = "tapacademy";
           System.out.println(isAnagram(s));
     }
}
```



Pangram

```
import java.util.Arrays;
public class Demo4 {
     static boolean isPangram(String s) {
           String t = "abcdefghijklmnopqrstuvwxyz";
           s = s.toLowerCase();
           int count = 0;
           for (int i = 0; i < t.length(); i++) {</pre>
                 if (s.indexOf(t.charAt(i)) >= 0)
                       count++;
                 else
                       break;
           }
           if (count == 26)
                 return true;
           else
                 return false;
     }
     public static void main(String[] args) {
           String s = "tapacademy";
           System.out.println(isPangram(s));
     }
```



Invalid Bracket

```
import java.util.Scanner;
public class Demo4 {
     public static void main(String[] args) {
            Scanner scan = new Scanner(System.in);
           String s = scan.nextLine();
           int bracket=0, count=0;
           for(int i=0; i<s.length(); i++) {</pre>
                 char c = s.charAt(i);
                 if(c == '(') {
                       bracket++;
                 else {
                       if(bracket <= 0) {</pre>
                             count++;
                        }else {
                             bracket--;
                        }
                 }
            }
           System.out.println(count + bracket);
     }
```



Mars Exploration:

```
import java.util.Scanner;
public class Demo4 {
      static int marsExploration(String s) {
            int count = 0;
           for(int i=0; i<s.length(); i=i+3) {</pre>
                 if(s.charAt(i) != 'S') {
                       count++;
                 if(s.charAt(i) != '0') {
                       count++;
                 if(s.charAt(i) != 'S') {
                       count++;
                 }
            return count;
      }
      public static void main(String[] args) {
           Scanner scan = new Scanner(System.in);
           String s = scan.next();
           System.out.println(marsExploration(s));
      }
}
```



Camel Case

```
import java.util.Scanner;
public class Demo4 {
     static int camelCase(String s) {
           int count = 1;
           for(int i=0; i<s.length(); i=i+3) {</pre>
                 if(s.charAt(i) >= 'A'
                       && s.charAt(i) <= 'Z') {
                       count++;
                 }
           return count;
     }
     public static void main(String[] args) {
           Scanner scan = new Scanner(System.in);
           String s = scan.next();
           System.out.println(camelCase(s));
     }
```



Strong Password

```
import java.util.Scanner;
public class Demo4 {
     static int minimumNumber(int n, String s) {
           int digit=1, lc=1, uc=1,sc=1;
           for(int i=0; i<s.length(); i++) {</pre>
                 char c = s.charAt(i);
                 if(c>='0' && c<='9') {
                       digit = 0;
                 else if(c>='a' && c<='z') {
                       1c = 0;
                 else if(c>='A' && c<='Z') {</pre>
                       uc = 0;
                 }else {
                       sc=0;
                 }
           }
           if((digit+lc+uc+sc) > 6-n) {
                 return (digit+lc+uc+sc);
           }else {
                 return 6-n;
           }
     }
     public static void main(String[] args) {
           Scanner scan = new Scanner(System.in);
           int n = scan.nextInt();
           String s = scan.next();
           System.out.println(minimumNumber(n, s));
     }
```