

<https://course.acciojob.com/idle?question=cf30bb3e-62e6-4432-ba9a-f4831e59844c>

● EASY

● Max Score: 30 Points

●

Vowel And Consonant Substrings!

Given a string A consisting of lowercase characters.

You have to find the number of substrings of A that start with a vowel and end with consonant and vice versa and return it.

Input Format

The first line given is a string A.

Output Format

Print a integer denoting the the number of substrings in A which starts with vowel and end with consonants or vice-versa

Example 1

Input

aba

Output

2

Explanation Substrings of S are : [a, ab, aba, b, ba, a] Out of these only 'ab' and 'ba' satisfy the condition for special Substring. So the answer is 2.

Example 2

Input

a

Output

0

Explanation No possible substring that start with vowel and end with consonant or vice-versa.

Constraints

$1 \leq |A| \leq 10^5$

A consists only of lower-case characters.

Topic Tags

- Strings
- Math

My code

```
// n java
import java.util.*;
import java.lang.*;
import java.io.*;

public class Main
{
    static int checkv(char c)
```

```

{
    if(c=='a' || c=='e' || c=='i' || c=='o' || c=='u')
        return 1;
    return 0;
}

    public static void main (String[] args) throws
java.lang.Exception
    {
        //your code here
        Scanner s=new Scanner(System.in);
        String str=s.next();
        long n=str.length();
        long ans=0;
        long con=0,vol=0;
        long MOD=(long)1e9+7;
        for(int i=0;i<n;i++)
        {
            int n1= checkv(str.charAt(i));
            if(n1==1)vol++;
            else con ++;
        }
        for(int i=0;i<n;i++)
        {
            int n1= checkv(str.charAt(i));
            if(n1==1)
            {
                vol--;
                ans=ans+con;
            }
            else

```

```
{
    con--;
    ans+=vol;

}
ans%=MOD;
}
System.out.println(ans);

}
```