- **EASY**
- **Max Score: 30 Points**

Amazing Substrings

You are given a string s, and you have to find all the amazing substrings of s. A substring is a continuous subsegment of a string.

Amazing Substring is a substring that starts with either an uppercase or a lowercase vowel.

Input Format

The first line of the input contains the string s.

Output Format

Print a single integer x mod 10003, where x is the number of Amazing Substrings in the given string.

Example 1

Input

ABEC

Output

6

Explanation

The amazing substrings are:

```
A
AB
ABE
ABEC
E
EC
```

Example 2

Input

```
Bdeuh
```

Output

```
5
```

Explanation

The amazing substrings are:

```
e
eu
euh
u
uh
```

Constraints

1 <= `length(S)` <= 1e6

`s` can have special characters

My code

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

public class Main
{
    public static void main (String[] args) throws
java.lang.Exception
    {
            //your code here
    Scanner s=new Scanner(System.in);
    String str=s.next();
    int c=0;
    for(int i=0;i<str.length();i++){
      char ch=str.charAt(i);

if(ch=='A'||ch=='E'||ch=='I'||ch=='O'||ch=='U'||ch=='a'||ch=='e'||ch=='i
'||ch=='o'||ch=='u')
  c=(c+str.length()-i)%10003;
      }
    System.out.print(c);

    }
}
```