

Programming (/courses/programming) / Strings (/courses/programming/topics/strings/) / Amazing Subarrays

## Amazing Subarrays

[Suggest Edit](#)[Bookmark](#)

You are given a string **S**, and you have to find all the **amazing substrings** of **S**.

Amazing Substring is one that starts with a **vowel** (a, e, i, o, u, A, E, I, O, U).

### Input

Only argument given is string S.

### Output

Return a single integer X mod 10003, here X is number of Amazing Substrings.

### Constraints

1 <= length(S) <= 1e6  
S can have special characters

### Example

Input  
ABEC

Output  
6

Explanation  
Amazing substrings of given string are :  
1. A  
2. AB  
3. ABE  
4. ABEC  
5. E  
6. EC  
here number of substrings are 6 and 6 % 10003 = 6.