The signatures

Memory limit: 512 MB
Time limit: 2 seconds

Rohan, Murali and Junaid are the Felicity coordinators for this year, and all three of them love their names. They sign the cheques for the sponsorship in a weird manner - the first letter of their names, i.e., *J, M,* and *R.* So, given a string containing only *'J','M' and 'R* - find out the number of **substrings** which contain **equal number** of 'J','M' and 'R' in it - in any order.

Input format:

The first line will contain the number of test cases. Only line in every test case will contain a string composed of only 'J','M' and 'R's.

Output format:

Output a single integer for each test case equal to the number of substrings containing equal number of 'J','M' and 'R's in the input string

Constraint:

1 <= Test Cases <= 150
1 <= Length (*string*) <= $\mathbf{10^5}$

Sample input:

3
JMR
JMMR
MJRRMJ

Sample output:

1
0
3