Mock CCC '24 Contest 1 J3 - RGB Words

Time limit: 1.0s **Memory limit:** 512M

Tommy likes the RGB keyboard. He would like to see how many RGB-words are in a given string s. An RGB-word is defined as a substring that starts with an `R` and ends with a `B`, and between this `R` and the `B` letter `G` appears **exactly** once. For example, `RGB`, and `RAGB` are RGB-words. However, `RGGB` is not an RGB-word. You are given a string s, Tommy would like to know how many RGB-words are there in the string, can you write a program to help him?

Input Specification

The first line contains an integer N, denoting the length of the given string s.

The second line contains the given string s, consisting of only capital English letters.

The following table shows how the available 15 marks are distributed.

Marks Awarded	N
3 marks	$1 \leq N \leq 500$
3 marks	$1 \leq N \leq 5000$
9 marks	$1 \leq N \leq 10^6$

Output Specification

The first and only line of output contains a single integer, representing the number of RGB-words found in the given string s.

Sample Input 1

```
4
RBGB
```

Sample Output 1

```
1
```

Explanation for Sample 1

`RBGB` is the only RGB-word that occurs in this case. Note that `RB` is not an RGB-word.

Sample Input 2

```
5
RGBAB
```

Sample Output 2

```
2
```

Explanation for Sample 2

`RGB` and `RGBAB` are RGB-words. Thus, there are a total of 2 RGB-words in the given string s.

Sample Input 3

```
4
RGGB
```

Sample Output 3

```
0
```