# Purple Rain

Sometimes (during the summer when students are away), purple rain falls in the magical kingdom of the engineering school, which is a straight and thin row walkway surrounded by engineering buildings.

On close observation however, Prof. Floryan finds that actually it is a mix of red and blue drops.

In his zeal, he records the location and color of the raindrops in different locations along the e-school. Looking at the data, Professor Floryan wants to know which part of the e-school had the "least" purple rain.

After some thought, he decides to model this problem as follows. Divide the e-school into n sections and number them West to East from 1 to n. Then, describe the raindrops as a sequence of R and B, depending on whether the rainfall in each section is primarily red or blue. Finally, find a subsequence of where the difference between the number of R and the number of B is maximized.
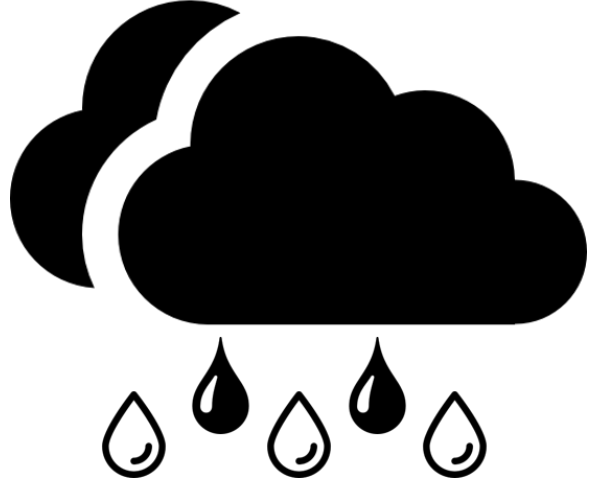
Input

The input consists of a single line containing a string of n characters ($1 \le n \le 10^5$), describing the color of the raindrops in sections 1 to n.

It is guaranteed that the string consists of uppercase ASCII letters 'R' and 'B' only.

Output

Print, on a single line, two space-separated integers that describe the starting and ending positions of the part of the e-school that had the least purple rain.

If there are multiple possible answers, print the one that has the Westernmost (smallest-numbered) starting section. If there are multiple answers with the same Westernmost starting section, print the one with the Westernmost ending section.

Sample Input

Sample Input	Sample Output
//example 1	
BBRRBRRBRB	3 7
//example 2	1 5
BBRBBRRB	