

Problem A: Don't Cross the Beams

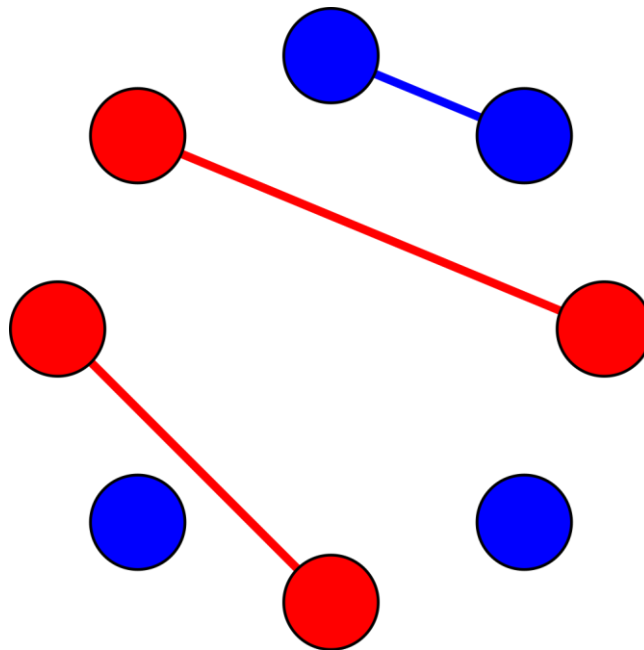
Filename: beams

Timelimit: 2 seconds

Lasers are great fun! That is why you have setup a configuration of posts placed in a circular configuration with equal spacing. On each post you will place either a laser or a mirror box to receive the laser beam!

You haven't quite figured out a configuration that looks nice but you do know for each post if you want it to send or receive laser beams of the two types of colors available (red or blue). You also don't want any of the beams to cross in your laser display.

Now you want to know the maximum number of lasers you can have in your design given a starting configuration of red and blue posts. Below is an example of posts and lasers being sent between them. Note that lasers travel in a straight line from their source to their mirror box.



Input

The input is a single string, s ($1 \leq |s| \leq 10^5$), of the characters 'R' or 'B', representing blue or red posts if you walked around the circle starting at an arbitrary post.

Output

Output a single integer on a line by itself representing the number of posts you can pair of the same color and not cross the laser beams!

Samples

Input	Output
RRRR	2
BBRBBRBRB	4
BRBRB	2
BBBRRRBBBRRR	5