

# 2103. Rings and Rods

## Description

There are `n` rings and each ring is either red, green, or blue. The rings are distributed across ten rods labeled from `0` to `9`.

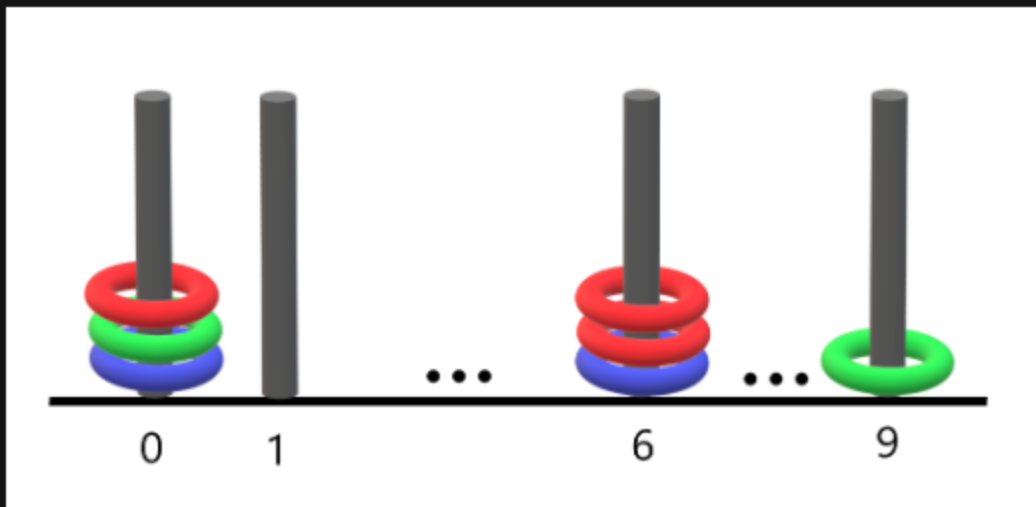
You are given a string `rings` of length `2n` that describes the `n` rings that are placed onto the rods. Every two characters in `rings` forms a **color-position pair** that is used to describe each ring where:

- The **first** character of the `ith` pair denotes the `ith` ring's **color** ( `'R'` , `'G'` , `'B'` ).
- The **second** character of the `ith` pair denotes the **rod** that the `ith` ring is placed on ( `'0'` to `'9'` ).

For example, `"R3G2B1"` describes `n == 3` rings: a red ring placed onto the rod labeled 3, a green ring placed onto the rod labeled 2, and a blue ring placed onto the rod labeled 1.

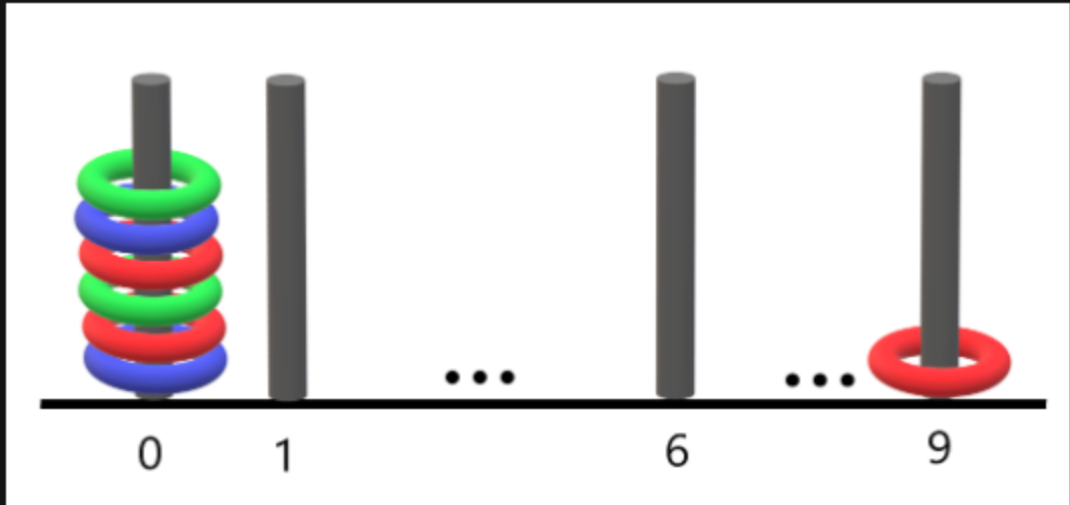
Return *the number of rods that have all three colors of rings on them*.

### Example 1:



**Input:** `rings = "B0B6G0R6R0R6G9"`  
**Output:** `1`  
**Explanation:**  
- The rod labeled 0 holds 3 rings with all colors: red, green, and blue.  
- The rod labeled 6 holds 3 rings, but it only has red and blue.  
- The rod labeled 9 holds only a green ring.  
Thus, the number of rods with all three colors is 1.

### Example 2:



**Input:** `rings = "B0R0G0R9R0B0G0"`  
**Output:** `1`  
**Explanation:**  
- The rod labeled 0 holds 6 rings with all colors: red, green, and blue.  
- The rod labeled 9 holds only a red ring.  
Thus, the number of rods with all three colors is 1.

### Example 3:

**Input:** `rings = "G4"`  
**Output:** `0`  
**Explanation:**  
Only one ring is given. Thus, no rods have all three colors.

### Constraints:

- `rings.length == 2 * n`
- `1 <= n <= 100`
- `rings[i]` where `i` is **even** is either `'R'` , `'G'` , or `'B'` ( **0-indexed** ).
- `rings[i]` where `i` is **odd** is a digit from `'0'` to `'9'` ( **0-indexed** ).

