# **Magic Colors**

Problem Submissions Discussions

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## **Problem Statement**

Arif, the magician is putting some magic colors in a box serially. But he is not providing any divider between the colors. So, the color may be mix up **instantly**.

There are three types of colors- Red, Green and Blue. How they could mix up is given below -

- Red + Blue = Purple
- Red + Green = Yellow
- Blue + Green = Cyan

And there are some other problems. If two same type of colors mix up, they will vanish each other. For example if two *Purple* colors get together, both of them will be vanished.

Can you help the magician to get the final colors that will be in the box?

#### **Input Format**

- ullet First line will contain  $oldsymbol{T}$ , the number of test cases.
- Next line will contain N, number of colors in the box.
- Next line will contain N characters (R,G,B only) , first capital letter of the color.

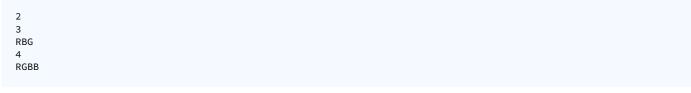
#### Constraints

- 1.  $1 \le T \le 100$
- 2.  $1 \le N \le 100$

## **Output Format**

• Output the first capital letter of the colors that are saved finally.

### Sample Input 0



## Sample Output 0



## Sample Input 1

```
5
6
RGGRRG
```

```
6
  RGRGRG
  RGGR
  RGGGR
  RGGB
Sample Output 1
  ΥR
  YC
                                                                                    f y in
                                                                                    Contest ends in 2 hours 7 minutes 16 seconds
                                                                                    Submissions: 2
                                                                                    Max Score: 1
                                                                                    Rate This Challenge:
                                                                                    \Diamond \Diamond \Diamond \Diamond \Diamond \Diamond
                                                                                    More
                                                                                                                    30 F#
                                                                                       C++20
    1 #include <bits/stdc++.h>
    2
    3
       using namespace std;
    4
    5
    6
    7
       int main()
    8 ▼{
    9
            // Write your code here
   10
   11
            return 0;
       }
   12
   13
                                                                                                                  Line: 1 Col: 1
                                                                                                   Run Code
<u>Lupload Code as File</u> Test against custom input
```