

Magic Colors

Problem

Submissions

Discussions

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

- First line will contain **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. $1 \leq T \leq 100$
2. $1 \leq N \leq 100$

Output Format

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

Sample Input 0

```
2
3
RBG
4
RGGGB
```

Sample Output 0

```
PG
Y
```

Sample Input 1

```
5
6
RGGRRG
```

```
6
RGRGRG
4
RGGR
5
RGGGR
4
RGGB
```

Sample Output 1

```
Y
Y

YR
YC
```



Contest ends in 2 hours 7 minutes 16 seconds

Submissions: [2](#)

Max Score: 1

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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

[Upload Code as File](#) ☐ Test against custom input

Run Code

Submit Code