



Magic Colors

locked

Problem

Submissions

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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

- 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
RGGG
```

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
```

[f](#) [t](#) [in](#)

Submissions: 14

Max Score: 1

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C++20
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```

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