

3rd year Couple Meet

locked

Problem	Submissions	Leaderboard	Discussions
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A boy is waiting inside a hall for his girl to get him unlocked.

To enter hall she has to open 3 doors:

- a red door
- a green door
- a blue door

The doors are placed one after another, however, possibly in a different order. To proceed to the next door, she must first open the door before it.

Each door can be only opened with a key of the corresponding color. So three keys:

- a red key
- a green key
- a blue key

Some keys can only be fond if you unlock doors before it. To open the door, she should first pick up the key of its color.

Keys and doors are represented as.

R, G, B – denoting red, green and blue doors, respectively;
r, g, b – denoting red, green and blue keys, respectively.

Each of these six characters appears in the string exactly once.

Given a map of the hallway, determine if she can open all doors and meet his love at the end of the hallway.

Input Format

The first line contains a single integer t (1≤t≤720) — the number of testcases.

Each testcase consists of a single string. Each character is one of R, G, B (for the doors), r, g, b (for the keys), and each of them appears exactly once.

Constraints

1≤t≤720

String length is 6

Output Format

For each testcase, print YES if the knight can open all doors. Otherwise, print NO.

Sample Input 0

4
rgbBRG
RgbrBG
bBrRgG
rgRGBb

Sample Output 0

YES
NO
YES
NO

Explanation 0

In the first testcase, the knight first collects all keys, then opens all doors with them.

In the second testcase, there is a red door right in front of the knight, but he doesn't have a key for it.

In the third testcase, the key to each door is in front of each respective door, so the knight collects the key and uses it immediately three times.

In the fourth testcase, the knight can't open the blue door.

Python 3

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Upload Code as File

Test against custom input

Run Code

Submit Code