

T. Easter Eggs

time limit per test: 2 seconds?

memory limit per test: 256 megabytes

input: standard input

output: standard output

The Easter Rabbit laid n eggs in a circle and is about to paint them.

Each egg should be painted one color out of 7: red, orange, yellow, green, blue, indigo or violet. Also, the following conditions should be satisfied:

- Each of the seven colors should be used to paint at least one egg.
- Any four eggs **lying sequentially** should be painted different colors.

Help the Easter Rabbit paint the eggs in the required manner. We know that it is always possible.

Input

The only line contains an integer n — the amount of eggs ($7 \leq n \leq 100$).

Output

Print one line consisting of n characters. The i -th character should describe the color of the i -th egg in the order they lie in the circle. The colors should be represented as follows: "R" stands for red, "O" stands for orange, "Y" stands for yellow, "G" stands for green, "B" stands for blue, "I" stands for indigo, "V" stands for violet.

If there are several answers, print any of them.

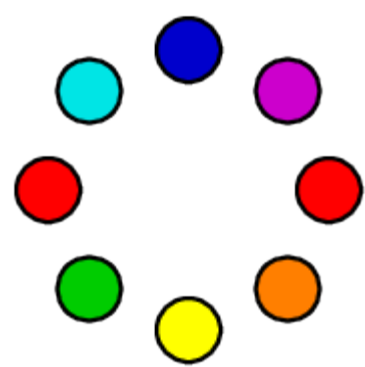
Examples

input	Copy
8	
output	Copy
ROYGRBIV	

input	Copy
13	
output	Copy
ROYGBIVGBIVYG	

Note

The way the eggs will be painted in the first sample is shown on the picture:



→ Attention

The package for this problem was not updated by the problem writer or Codeforces administration after we've upgraded the judging servers. To adjust the time limit constraint, a solution execution time will be multiplied by 2. For example, if your solution works for 400 ms on judging servers, then the value 800 ms will be displayed and used to determine the verdict.

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Sheet #10 (General Hard)

Finished