

# Thimphu Traffic Control

Time: 1s | Memory: 256 MB

## Problem Statement

In the capital city of Thimphu, traffic is now going to be managed using a fixed repeating signal system to avoid congestion and maintain order without traffic lights being physically installed at every junction.

Each cycle consists of:

- Green light for a fixed duration
- Yellow light for caution
- Red light for stopping vehicles

The cycle repeats continuously.

A driver arrives at a junction at a specific second and must know the exact state of the signal at that moment to decide whether to proceed or wait.

Your task is to determine the traffic signal color at that given time.

## Input Format

Line 1: three integers  $g$   $y$   $r$

Line 2: integer  $t$

## Output Format

Print GREEN, YELLOW, or RED.

## Constraints / Notes

$1 \leq g, y, r \leq 10^9$

$0 \leq t \leq 10^{18}$

## Sample Input

```
10 2 8
15
```

## Sample Output

```
RED
```