# A. Boys and Girls

time limit per test
1 second
memory limit per test
256 megabytes
input
input.txt
output
output.txt

There are n boys and m girls studying in the class. They should stand in a line so that boys and girls alternated there as much as possible. Let's assume that positions in the line are indexed from left to right by numbers from 1 to n+m. Then the number of integers  $i(1 \le i < n+m)$  such that positions with indexes i and i+1 contain children of different genders (position i has a girl and position i+1 has a boy or vice versa) must be as large as possible. Help the children and tell them how to form the line.

# Input

The single line of the input contains two integers n and m ( $1 \le n, m \le 100$ ), separated by a space.

# Output

Print a line of n+m characters. Print on the i-th position of the line character "B", if the i-th position of your arrangement should have a boy and "G", if it should have a girl. Of course, the number of characters "B" should equal n and the number of characters "G" should equal m. If there are multiple optimal solutions, print any of them.

#### **Examples**

### input

3 3

#### output

GBGBGB

#### input

4 2

# output

**BGBGBB** 

#### **Note**

In the first sample another possible answer is BGBGBG.

In the second sample answer BBGBGB is also optimal.