

## Problem B. Boys and Girls

Input file:            boysgirls.in  
Output file:           boysgirls.out  
Time limit:            2 seconds  
Memory limit:         256 megabytes

Bob found a nice task in his old math book for children. It says:

There are 10 children standing in a circle, 5 of them stand next to a boy, and 7 of them stand next to a girl. How is it possible?

Here is the solution to the task. If 4 boys and 6 girls stand like this: BBGBGBGBGGG, there are 5 children who stand next to a boy (here they are underlined: BBGBGBGBGGG), and 7 children who stand next to a girl (BBGBGBGBGGG).

Now Bob wants to solve a generalized version of this task:

There are  $n$  children standing in a circle,  $x$  of them stand next to a boy, and  $y$  of them stand next to a girl. How is it possible?

Help Bob by writing a program that solves the generalized task.

### Input

The single line of the input contains three integers  $n$ ,  $x$  and  $y$  ( $2 \leq n \leq 100\,000$ ;  $0 \leq x, y \leq n$ ).

### Output

If there is a solution, output a string of length  $n$ , describing the order of children in the circle. Character 'G' corresponds to a girl, character 'B' corresponds to a boy. If there are several solutions, output any of them.

If there is no solution, output "Impossible".

### Examples

boysgirls.in	boysgirls.out
10 5 7	BGBGBGBGGG
10 3 8	Impossible