Rooks inside a rectangle   P31389_en

Consider a rectangular board $r \times c$ with $r \leq c$. Write a program that prints all the ways to place r rooks on the board so that no rook threatens another rook.

Input

Input consists of two natural numbers r and c, with $1 \leq r \leq c$.

Output

Print all the ways to place r rooks on the board so that no rook threatens another rook. Represent the rooks with a 'R', and the empty positions with a dot. Print an empty line after each board.

Information about the checker

You can print the solutions to this exercise in any order.

Sample input 1	Sample output 1
2 3	R..
	.R.
	R..
	..R
	.R.
	R..
	.R.
	..R
	..R
	R..
	..R
	.R.

Sample input 2	Sample output 2
1 1	R

Problem information

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