
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

2 3

Sample output 1

```
R..  
.R.  
  
R..  
.R.  
  
.R.  
R..  
  
.R.  
.R.  
  
.R.  
R..  
  
.R.  
.R.
```

Sample input 2

1 1

Sample output 2

```
R
```

Problem information

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