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The Virtual Learning Environment for Computer Programming

## Cover a board

P16898_en
Dotzè Concurs de Programació de la UPC - Semifinal (2014-07-02)
You have an $n \times m$ board. In how many mays can you cover it with $1 \times 2$ pieces?

## Input

Input consists of $n$ and $m$. Assume $2 \leq n m \leq 40$, and that $n m$ is even.

## Output

Print in lexicographical order all the ways to cover the board. To distinguish the pieces, the two cells of the same piece must have the same digit, and two adjacent pieces must have different digits. Apart from that, digits should be as small as possible. (See the sample output 3.) Print a blank line after every solution.

## Sample input 1

12

## Sample input 2

22

## Sample input 3

24

## Sample output 1

00

## Sample output 2

00
11
01
01

## Sample output 3

0010
2210
0011
1100
0100
0122
0101
0101
0110
0220

## Problem information

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