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The Virtual Learning Environment for Computer Programming

## Covering a board

Examen extraordinari d'Algorísmia, FME (2014-07-07)
You have an $n \times m$ board. In how many ways can you cover it with $1 \times 2$ pieces?

## Input

Input consists of $n$ and $m$. You can assume $2 \leq n m \leq 52$, and that $n m$ is even.

## Output

Print in lexicographical order all the ways to cover the board. To distinguish the pieces, both cells must have the same lowercase letter, and all the pieces must have different letters. Appart from that, letters should be as small possible. Print an empty line after each solution.

## Sample input 1

12

## Sample input 2

22

## Sample input 3

## 24

## Sample output 1

aa

```
Sample output 2
aa
bb
ab
ab
```


## Sample output 3

aabb
ccdd
aabc
ddbc
abbc
addc
abcc
abdd
abcd
abcd

## Problem information

Author: Salvador Roura
Translator: Salvador Roura
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