



HOME CONTESTS GYM PROBLEMSET GROUPS RATING API CANADA CUP 🖫 SECTIONS

PROBLEMS SUBMIT STATUS STANDINGS CUSTOM TEST

A. Coder

time limit per test: 1 second memory limit per test: 256 megabytes input: standard input output: standard output

lahub likes chess very much. He even invented a new chess piece named Coder. A Coder can move (and attack) one square horizontally or vertically. More precisely, if the Coder is located at position (x, y), he can move to (or attack) positions (x + 1, y), (x-1, y), (x, y + 1) and (x, y-1).

lahub wants to know how many Coders can be placed on an $n \times n$ chessboard, so that no Coder attacks any other Coder.

Input

The first line contains an integer n ($1 \le n \le 1000$).

Output

On the first line print an integer, the maximum number of Coders that can be placed on the chessboard.

On each of the next n lines print n characters, describing the configuration of the Coders. For an empty cell print an '.', and for a Coder print a 'C'.

If there are multiple correct answers, you can print any.

Examples

Litatilples	
input	
2	
output	
2 C. .C	

Codeforces Round #225 (Div. 2)

Finished

→ Virtual participation

Virtual contest is a way to take part in past contest, as close as possible to participation on time. It is supported only ACM-ICPC mode for virtual contests. If you've seen these problems, a virtual contest is not for you - solve these problems in the archive. If you just want to solve some problem from a contest, a virtual contest is not for you - solve this problem in the archive. Never use someone else's code, read the tutorials or communicate with other person during a virtual contest.

Start virtual contest

→ Problem tags (implementation) No tag edit access

→ Contest materials Announcement ▼ Tutorial

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Desktop version, switch to mobile version.