

Begin: 2023-08-18
14:00 UTC-3

scc211_23_02

End: 2023-08-28
14:00 UTC-3

Ended

Overview

Problem

Status

Rank (10:00:00:00)

1 Comments

Setting

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Time limit

1000 ms

Mem limit

524288 kB

Source

Graph Algorithms

Spoilers

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A - Knight's Tour

CSES - 1689 



Given a starting position of a knight on an 8×8 chessboard, your task is to find a sequence of moves such that it visits every square exactly once.

On each move, the knight may either move two steps horizontally and one step vertically, or one step horizontally and two steps vertically.

Input

The only line has two integers x and y : the knight's starting position.

Output

Print a grid that shows how the knight moves (according to the example). You can print any valid solution.

Constraints

- $1 \leq x, y \leq 8$

Sample

Input	copy	Output	copy
2 1		8 1 10 13 6 3 20 17 11 14 7 2 19 16 23 4 26 9 12 15 24 5 18 21 49 58 25 28 51 22 33 30 40 27 50 59 32 29 52 35 57 48 41 44 37 34 31 62 42 39 46 55 60 63 36 53 47 56 43 38 45 54 61 64	



