Problem
Coprime Matrix

This is an output-only problem.

Little Cyan Fish wants to arrange the integers from 1 to 10^4 in a 100×100 matrix, using each integer exactly once.

Construct such a matrix so that the integers in every pair of cells sharing a common side are coprime. Two positive integers are coprime if their greatest common divisor is 1.

Output

You should not submit any solution code for this problem. Instead, you need to submit a single text file to describe the matrix you constructed. The file should contain 100 lines, each containing 100 integers, describing the matrix. Each integer from 1 to 10^4 must appear exactly once, and the integers in every pair of cells sharing a common side must be coprime.

If there are multiple solutions, output any of them.

Sample Input 1	Sample Output 1
	1 3 2 5 8 9 6 7 4

The sample output is only intended to illustrate the output format. It shows a valid solution for a 3×3 matrix, using each integer from 1 to 9 exactly once. Your output must describe a 100×100 matrix.