

TEXTDRAW: Star

Problem Code	hw02a_drawstar
Running Time Limit	1 sec
Memory Limit	16 mb

Objective

- Be able to use loop and nested loop structures

Introduction

This problem is another one in text drawing series. In this problem, you are to draw a diamond pattern on the screen. The following table show example of diamonds of size 3, 4 and 5.

Size 3	Size 4	Size 5
* *** ***** *** *	* *** ***** ***** ***** *** *	* *** ***** ***** ***** ***** ***** ***** *** *

Similar to the previous problem in the text drawing, instead of drawing a character '*', we will use a series of number instead. The center of a diamond will be number 0 the number surrounding number 0 will be number 1. Similarly, the number surrounding number 1 will be number 2 and so on. The following table shows the actual diamonds of size 3, 4 and 5.

Size 3	Size 4	Size 5
2 212 21012 212 2	3 323 32123 3210123 32123 323 3	4 434 43234 4321234 432101234 4321234 43234 434 4

Task

Your task is to draw a numbered diamond of the given size.

Input

A single line of one positive integer N ($1 \leq N \leq 10$) where N is the size of the required diamond.

Output

A numbered right triangle of size N , with M as the *starting* number.

Example

Ex1

Input	Output
3	2 212 21012 212 2

Ex2

Input	Output
4	3 323 32123 3210123 32123 323 3

Ex3

Input	Output
5	4 434 43234 4321234 432101234 4321234 43234 434 4