

Pattern Printing

— Problem Description

Decode the logic and print the Pattern that corresponds to given input.

If N= 3

then pattern will be :

10203010011012

**4050809

****607

If N= 4

then pattern will be:

1020304017018019020

**50607014015016

****809012013

*****10011

— Constraints

$2 \leq N \leq 100$

— Input Format

Single Integer N

— Output

The pattern

— Test Case

— Explanation

Example 1

Input