

A. Little Pony and Crystal Mine

time limit per test: 1 second

memory limit per test: 256 megabytes

input: standard input

output: standard output

Twilight Sparkle once got a crystal from the Crystal Mine. A crystal of size n (n is odd; $n > 1$) is an $n \times n$ matrix with a diamond inscribed into it.

You are given an odd integer n . You need to draw a crystal of size n . The diamond cells of the matrix should be represented by character "D". All other cells of the matrix should be represented by character "*". Look at the examples to understand what you need to draw.

Input

The only line contains an integer n ($3 \leq n \leq 101$; n is odd).

Output

Output a crystal of size n .

Examples

input
3
output
D DDD *D*

input
5
output
D *DDD* DDDDD *DDD* **D**

input
7
output
D **DDD** *DDDDD* DDDDDDD *DDDDD* **DDD** ***D***