

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

Copy

3

output

Copy

D

DDD

D

input

Copy

5

output

Copy

D

DDD

DDDDD

DDD

D

input

Copy

7

output

Copy

D
DDD
DDDDD
DDDDDDD
DDDDD
DDD
D