

22 Nested triangles

15 points

Introduction

Given an input nesting level number, within the range from 0 to 9, draw a set of triangles which sit inside each other. Please note in the examples that a nesting level of 0 means a 0 triangle.

Input

The input will be a single integer number indicating the level of nesting between 0 and 9.

Output

Print out the nested triangles.

Example 1

Input

1

Output

```
1
111
```

Example 2

Input

3

Output

```
3
 323
 32123
 3211123
 322222223
 33333333333
```

Example 3

Input

0

Output

0