
Spirals

P44243_en

Tercer Concurs de Programació de la FME (2006-05-04)

Write a program that prints “spirals” of size $n \times n$, as it is shown in the examples.

Input

Input consists of a sequence of strictly positive natural numbers, ended with zero.

Output

For each n , print a spiral of size $n \times n$. Note that in the bottom row and in the right column there are only 'x's. Print an empty line after each spiral.

Observation

A matrix is not needed to solve this problem, but use it for simplicity.

Sample input

```
4
6
7
0
```

Sample output

```
.xxx
.x.x
...x
xxxx

. xxxxx
.x...x
.x.x.x
.xxx.x
.....x
xxxxxx

. xxxxxxx
.x....x
.x.xx.x
.x..x.x
.xxxx.x
.....x
xxxxxxx
```

Problem information

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