**Fractal**

|  |  |  |
| --- | --- | --- |
| **Time Limit:** 1000MS |  | **Memory Limit:** 30000K |
|  |  |  |

**Description**

A fractal is an object or quantity that displays self-similarity, in a somewhat technical sense, on all scales. The object need not exhibit exactly the same structure at all scales, but the same "type" of structures must appear on all scales.   
A box fractal is defined as below :

* A box fractal of degree 1 is simply   
  X
* A box fractal of degree 2 is   
  X X   
  X   
  X X
* If using B(n - 1) to represent the box fractal of degree n - 1, then a box fractal of degree n is defined recursively as following
* B(n - 1) B(n - 1)
* B(n - 1)

B(n - 1) B(n - 1)

Your task is to draw a box fractal of degree n.

**Input**

The input consists of several test cases. Each line of the input contains a positive integer n which is no greater than 7. The last line of input is a negative integer −1 indicating the end of input.

**Output**

For each test case, output the box fractal using the 'X' notation. Please notice that 'X' is an uppercase letter. Print a line with only a single dash after each test case.

**Sample Input**

1

2

3

4

-1

**Sample Output**

X

-

X X

X

X X

-

X X X X

X X

X X X X

X X

X

X X

X X X X

X X

X X X X

-

X X X X X X X X

X X X X

X X X X X X X X

X X X X

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