

Problem 6—Lighthouses

As a lighthouse keeper, Arthur Curry finds himself with copious free time. Although he spends a lot of time swimming in the ocean, and, presumably, making friends with fish, he has also taken up the time-honored tradition of ASCII art.

Arthur (no relation to King Arthur) would like you to draw pictures of lighthouses of various sizes.

INPUT SPECIFICATION. The input consists of several cases. Each case is an unsigned decimal integer greater than 1, representing the size of the lighthouse. The last case is followed by a zero. This zero should not be processed; it merely signifies the end of input. There may be any number of spaces and <EOLN>'s before, after, and/or between the integers in this file.

OUTPUT SPECIFICATION. The output cases should appear in the same order as their respective input cases. Although a full output specification is pointless for an ASCII art problem (just follow the examples below), there are a few things that should be made clear. First of all, the width of the lighthouse is $2n-1$, where n is the size of the lighthouse. Second of all, there should be an extra <EOLN> character following each lighthouse. Although some lines must contain leading spaces for the picture to work, no line should contain trailing spaces.

SAMPLE INPUT.

```
3<EOLN>
4<EOLN>
0<EOLN>
<EOF>
```

SAMPLE OUTPUT.

```
.. ^<EOLN>
./.\<EOLN>
X---X<EOLN>
|...|<EOLN>
|...|<EOLN>
|...|<EOLN>
X---X<EOLN>
<EOLN>
... ^<EOLN>
../.\<EOLN>
./... \<EOLN>
X-----X<EOLN>
|.....|<EOLN>
|.....|<EOLN>
|.....|<EOLN>
|.....|<EOLN>
|.....|<EOLN>
X-----X<EOLN>
<EOLN>
<EOF>
```