Tree

Example task

Short name:	**tre**
Time limit:	**1 s**
Memory limit:	**256 MB**

As we all know, every Christmas tree consists of exactly three parts, in their descending order: upper part, lower part, and the trunk. Upper and lower part of tree are represented by an isosceles triangle 1 character wide at the top and growing by 1 character in both directions (left and right) with each line, going downwards.

A Christmas tree will be said to be of size n if its upper part is n lines tall and its lower part is $n+1$ lines tall. The trunk is always 2 characters tall and 1 character wide, located on the tree's vertical axis, regardless of the overall tree size. In this problem you'll be asked to print a Christmas tree of given size, represented by hashes on a dotted background.

Input

A single integer n ($n \leq 1\,000$) denoting the size of the tree.

Output

If $n = 0$, print only one line saying "Too small to exist".
Otherwise, print $2 \cdot n + 3$ lines, $2 \cdot n + 1$ characters each, representing a drawing of an n–sized Christmas tree, as described in the problem statement. Check out the examples in order to get a better understanding of the output format.

Input for test `tre1ocen`:

```
4
```

Output for test `tre1ocen`:

```
....#....
...###...
..#####..
.#######.
....#....
...###...
..#####..
.#######.
#########
....#....
....#....
```