

Concentric squares



SEASON 9 – FOURTH ROUND

You have to draw N concentric squares. The borders of those squares are made out of the character “#” and the first (innermost) square is just a single “#”. Each of the following squares entirely encompasses the previous, while leaving a single line of empty space (“.”). See the examples for clarification.

Input

From the first line of the input file `concentric_squares.in` the number of concentric squares N is entered.

Output

In the output file `concentric_squares.out` print $4*N-3$ lines with $4*N-3$ characters each - the drawn concentric squares.

Constraints

$$1 \leq N \leq 50$$

Time limit: 0.3 seconds

Memory limit: 256 MB

Example

Input (<code>concentric_squares.in</code>)	Output (<code>concentric_squares.out</code>)
1	#
2	##### #...# #.#.# #...# #####
3	##### #.....# #.#.###.# #.#...#.# #.#.#.#.# #.#...#.# #.#.###.# #.....# #####