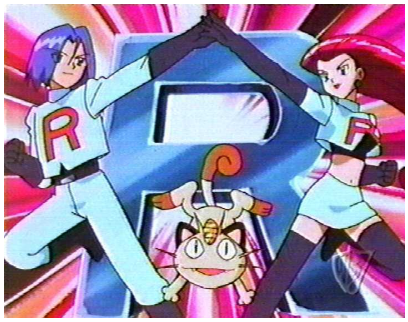
WC '18 Contest 3 J3 - R

Time limit: 1.0s **Memory limit:** 16M

Woburn Challenge 2018-19 Round 3 - Junior Division



Jessie, James, and Meowth, members of the honourable Team Rocket, are big fans of the letter `R`. It's just such an awe-inspiring letter! It only makes sense that it should feature prominently on all of their uniforms and equipment.

James is generally tasked with painting the letter `R` onto Team Rocket's various belongings. Sometimes he needs to paint small `R`'s, and other times enormous ones. As such, he'd like to get in some extra practice with painting the most beautifully perfect `R`'s that he can.

Today, James would like to paint an `R` of size S $(3 \leq S \leq 30)$ onto a grid with $2S-1$ rows and S columns. The required state of each cell in the grid may be represented with a character, either `#` if that cell should be painted, or `.` if it should be left unpainted.

The top portion of an `R` of size S consists of the painted outline of a square of cells with side-length S, with its top-right and bottom-right corners left unpainted. Below that, a vertical line of $S-1$ cells should be painted, running up from the grid's bottom-left corner to just below the square. Finally, to the right of that, a diagonal line of $S-1$ cells should be painted, running up-left from the grid's bottom-right corner to just below the square. Please see the sample cases for a demonstration.

Help James visualize what a perfect `R` of size S should look like!

Input Specification

The first and only line of input consists of a single integer, S.

Output Specification

Output a grid with $2S-1$ rows and S columns of characters, representing an `R` of size S.

Sample Input 1

```
5
```

Sample Output 1

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

Sample Input 2

```
3
```

Sample Output 2

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