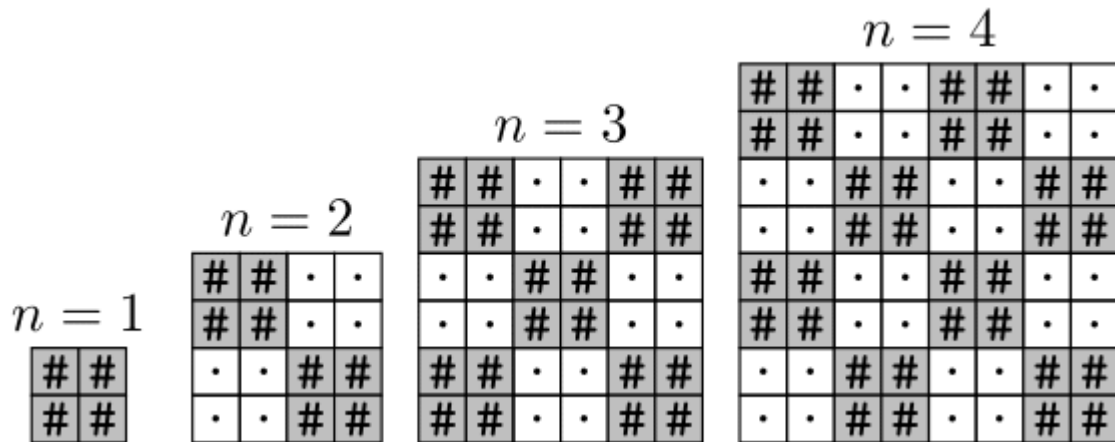


Problem Q. Upscaling

Time limit 1000 ms

Mem limit 262144 kB

You are given an integer n . Output a $2n \times 2n$ checkerboard made of 2×2 squares alternating '#' and '.', with the top-left cell being '#'.
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The picture above shows the answers for $n = 1, 2, 3, 4$.

Input

The first line contains an integer t ($1 \leq t \leq 20$) — the number of test cases.

The only line of each test case contains a single integer n ($1 \leq n \leq 20$) — it means you need to output a checkerboard of side length $2n$.

Output

For each test case, output $2n$ lines, each containing $2n$ characters without spaces — the checkerboard, as described in the statement. Do **not** output empty lines between test cases.

Examples

Input	Output
4 1 2 3 4	## ## ##.. ##.. ..## ..## ##..## ##..## ..##.. ..##.. ##..## ##..## ##..##.. ##..##.. ..##..## ..##..## ##..##.. ##..##.. ..##..## ..##..##