

Problem 3 – Dumbbell

As we all know programmers are not bodybuilders and vice versa. But there is one exception. His name is Marcho Zuckerberov. At the moment he is very busy learning how to code in the well-known language “C Diez” and he has only 30 minutes per day for training. Help Marcho break the rule of becoming an ordinary and overweight programmer by making him a **dumbbell** with the weight needed (**N kg**) for his “gouemi ruki chuek”.

Input

The input data should be read from the console.

On the only input line you have an integer number **N**, showing the **height** of the dumbbell.

The input data will always be valid and in the format described. There is no need to check it explicitly.

Output

The output data should be printed on the console.

The **number of lines** should be equal to the height **N** of the dumbbell.

Each line should hold exactly **N x 3** symbols: "." (dot), "*" (asterisk), "=" (equal sign) or "&" (ampersand).

The **visible part** of the dumbbell **bar** should be exactly **N** symbols.

Constraints

- The number **N** will always be an **odd** integer number in the range [5...39].
- Allowed working time for your program: 0.25 seconds.
- Allowed memory: 16 MB.

Examples

Input	Output
5	..&&&.....&&&.. .&***&.....&***&.. &***&=====&***& .&***&.....&***&.. ..&&&.....&&&..

Input	Output
7	...&&&&.....&&&&.. ..&***&.....&***&.. .&***&.....&***&.. &*****&=====&*****& .&***&.....&***&.. ..&***&.....&***&.. ...&&&&.....&&&&..