## Character Patterns (Act 2)

Using two characters: . (dot) and * (asterisk) print a frame-like pattern.

## Input

You are given $t$ - the number of test cases and for each of the test cases two positive integers: /the number of lines and $c$ - the number of columns of a frame.

## Output

For each of the test cases output the requested pattern (please have a look at the example). Use one line break in between successive patterns.

## Example

Input:
3
31
44
25
Output:
*
*
****
*..*
*..*
****
*****

