Character Patterns (Act 3)

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

Input

You are given *t* - the number of test cases and for each of the test cases two positive integers: *l* - the number of lines and *c* - the number of columns in the grid. Each square of the grid is of the same size and filled with 4 dots (see the example below).

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
3 1
4 4
2 5
```

Output:
```
****
*..*
*..*
****
*..*
*..*
****
*..*
*..*
****

*************
*..*..*..*..*
*..*..*..*..*
*************
*..*..*..*..*
*..*..*..*..*
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*..*..*..*..*
*..*..*..*..*
*************
*..*..*..*..*
*..*..*..*..*
*************

***************
*..*..*..*..*..*
*..*..*..*..*..*
***************
*..*..*..*..*..*
*..*..*..*..*..*
```

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