

Character Patterns (Act 1)

Using two characters: . (dot) and * (asterisk) print a chessboard-like pattern. The first character printed should be * (asterisk).

Input

You are given $t < 100$ - 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 pattern ($l, c < 100$).

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:

```
*
.
*

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

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