

Cross Pattern (Act 2)

Print a cross pattern using the * (asterisk) and . (dot) characters.

Input

The first line contains an integer t , the number of test cases. The next t lines contain four integers separated by spaces: m , n , c_i , c_j .

Output

For each test case print a cross on an m -by- n grid centered at row c_i and column c_j , as shown in the example.

Constraints

$$1 \leq t \leq 100$$

$$1 \leq m, n \leq 100$$

$$1 \leq c_i \leq m$$

$$1 \leq c_j \leq n$$

Example

Input:

```
3
1 1 1 1
5 5 3 3
8 13 3 5
```

Output:

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

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