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## The box of the rays

P26271\_en

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Write a program that, given three natural numbers  $n$ ,  $m$  and  $c$  prints all the possible *rays* with the beginning in the column  $c$  in a box  $n \times m$ . A ray is a vertical sequence of diagonals to the left or to the right.

### Input

Input consists of three natural numbers  $n$ ,  $m$  and  $c$ , with  $n > 0$ ,  $m > 0$  and  $0 \leq c \leq m$ .

### Output

Your program must print all the possible rays with the beginning in the columns  $c$  in a box  $n \times m$ . The solutions must appear in the same order than in the instances. It must print asterisks around every solution, and print a line in white after each solution.

#### Sample input 1

```
a6
2
d5 1
g6 1
```

#### Sample output 1

```
taulell inicial incorrecte
```

#### Sample input 2

```
a4
2
b8 1
c1 1
```

#### Sample output 2

```
escac i mat!!!
```

#### Sample input 3

```
h8
3
a1 1
b1 1
a2 2
```

#### Sample output 3

```
escac i mat!!!
```

### Problem information

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Generation : 2024-04-30 17:59:06