The box of the rays   P26271_en

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 $0 \le c \le m$.

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: 2026-01-25T10:28:27.631Z