

## The rays box

**P92237\_en**

Write a program that, given three natural numbers  $n$ ,  $m$  and  $c$ , prints all the possible rays with beginning at 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 beginning at the column  $c$  in a box  $n \times m$  of asterisks. It must print a line in white after each solution.

### Information about the checker

You can print the solutions to this exercise in any order.

### Sample input 1

3 5 3

### Sample output 1

```

*****
*   /   *
*  /    *
* /     *
* /      *
*****

*****
*   /   *
*  /    *
* \     *
*****

*****
*   /   *
*  \    *
*   /   *
*****

*****
*   /   *
*  \    *
*   \   *
*****

*****
*   \   *
*   /   *
*  /    *
*****

*****
*   \   *
*   /   *

```

```

*      \  *
*****

*****
*      \  *

```

### Sample input 2

2 5 3

```

*      \  *
*      /  *
*****

```

### Sample output 2

```

*****
*      /  *
*      /  *
*****

```

```

*****
*      /  *
*      \  *
*****

```

```

*****
*      \  *
*      /  *
*****

```

```

*****
*      \  *
*      \  *
*****

```

### Sample input 3

4 1 0

### Sample output 3

```

***
* \ *
* / *
* \ *
* / *
***

```

### Problem information

Author : Salvador Roura  
Translator : Carlos Molina  
Generation : 2025-05-13 12:09:56

© *Jutge.org*, 2006–2025.  
<https://jutge.org>