Draw Rectangle

given dimensions of a rectangle draw an empty rectangle using * with the given dimensions

Input

Two integers N and M

N is the height and M is the width

N and M are integers and greater than 0

N and M are not exceeding 100

Output

Rectangle its border is filled with * and empty from inside

Example

Input:
3 4

Output:
****

* *

****

the output may be not clear but the second line has 4 characters , 2 asterisks at the begin and the end and 2 spaces in

the middle