## Pyramids

Remember the pyramid problem from PL1 where you need to print a pyramid with '*' characters? We got the same problem here with 2 types of pyramids. In the images below there are two types of pyramids with 4 steps. The first type is top to bottom and the second type is its reverse.

| $*$ | $* * * * * * *$ |
| :---: | :---: |
| $* * *$ | $* * * * *$ |
| $* * * * *$ | $* * *$ |
| $* * * * * * *$ | $*$ |
| Type 1: top to bottom | Type $2:$ bottom to top |

Now given the number of steps $\mathbf{N}$ and the type $\mathbf{T}$ print a type $\mathbf{T}$ pyramid with $\mathbf{N}$ steps.

## Input

Input starts with an integer $\mathbf{X}(\leq 50)$, denoting the number of test cases.
Each case contains two integers $\mathbf{N}$ and $\mathbf{T}$ where $\mathrm{N}(1 \leq \mathrm{N} \leq 20)$ denotes the number of steps and $\mathrm{T}(1 \leq \mathrm{T} \leq 2)$ denotes the type of the pyramid.

## Output

For each test case print N lines containing only '*' and required spaces to form the pyramid. Do not print extra unnecessary characters.

## Example

Input:
2
32
41
Output:
*****
***
*
***
$* * * * * *$
P.S. Contest is going on. Problem will be moved to tutorial section after the contest.

