## C2: Diamonds

## **Centered Triangles**

The picture we want to print out is a centered triangle based on the number of lines.

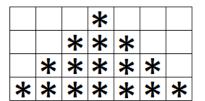


Further analysis shows:

The initial number of spaces is the number of lines -1.

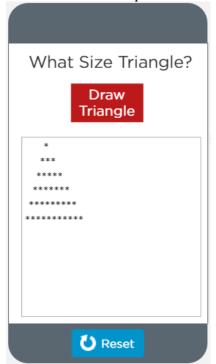
1	2	3	*			
		*	*	*		
	*	*	*	*	*	
*	*	*	*	*	*	*

The number of stars is the (line number \* 2) -1



line 1 = 
$$(1*2 - 1)$$
 = 1 star  
line 2 =  $(2*2 - 1)$  = 3 stars  
line 3 =  $(3*2 - 1)$  = 5 stars  
line 4 =  $(4*2 - 1)$  = 7 stars

This is the code required:



## Your assignment:

Make an app that prints out a diamond. The lines will still refer to the lines of the triangle on the top.

Lines? 4	Lines? 5 *	Lines? 2 *
***	* * *	***
****	* * * *	*
*****	* * * * * *	
****	*****	
* * *	* * * * * *	
*	* * * *	
	* * *	
	*	