Triangle with the height of h

Write a program that takes a single integer **h**, the height of the triangle. Then, draw an isosceles triangle with the height **h** and the base width of **2h-1**.

Input

A single integer representing the height of the triangle. (height >= 2)

Output

String with the number of lines equal to the input height **h** that represents the isosceles triangle like the example below.

Example

Input (from keyboard)	Output (on screen)
2	<pre> * ***</pre>
3	<pre> * * * *****</pre>

8	<pre> *
	      * *
	     * *
	    * *
	   * *
	  * *
	 * *
	***************</pre>