1. Take an input n. Print the triangular pattern shown below using the value of n. (Output samples are shown below)

| n = 1 | n = 2 | n = 3 | n = 4 | n = 5 |
| --- | --- | --- | --- | --- |
| \* | \*  \*\*  \* | \*  \*\*  \*\*\*  \*\*  \* | \*  \*\*  \*\*\*  \*\*\*\*  \*\*\*  \*\*  \* | \*  \*\*  \*\*\*  \*\*\*\*  \*\*\*\*\*  \*\*\*\*  \*\*\*  \*\*  \* |

[Observe and compare the values of n with corresponding outputs to understand the pattern.]

1. Take an input n. Print a diamond pattern using the value of n. (Output samples are shown below)

| n = 1 | n = 2 | n = 3 | n = 4 | n = 5 |
| --- | --- | --- | --- | --- |
| \* | \*  \* \*  \* | \*  \* \*  \* \*  \* \*  \* | \*  \* \*  \* \*  \* \*  \* \*  \* \*  \* | \*  \* \*  \* \*  \* \*  \* \*  \* \*  \* \*  \* \*  \* |

[Observe and compare the values of n with corresponding outputs to understand the pattern.]

1. Print the first 100 fibonacci numbers.

To know more about fibonacci series: <https://www.mathsisfun.com/numbers/fibonacci-sequence.html>

First 10 numbers: 0, 1, 1, 2, 3, 5, 8, 13, 21, 34 …

1. Solve the following problem:

