1. Write a C++ code that uses looping to print the following table of values:

<table>
<thead>
<tr>
<th>N</th>
<th>10*N</th>
<th>100*N</th>
<th>1000*N</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>10</td>
<td>100</td>
<td>1000</td>
</tr>
<tr>
<td>2</td>
<td>20</td>
<td>200</td>
<td>2000</td>
</tr>
<tr>
<td>3</td>
<td>30</td>
<td>300</td>
<td>3000</td>
</tr>
<tr>
<td>4</td>
<td>40</td>
<td>400</td>
<td>4000</td>
</tr>
<tr>
<td>5</td>
<td>50</td>
<td>500</td>
<td>5000</td>
</tr>
</tbody>
</table>

2. Write an application that reads three nonzero integers and determines and prints whether they could represent the sides of a right triangle.

Enter side 1: 5
Enter side 2: 4
Enter side 3: 3
These are the sides of a right triangle

3. Write a code that displays the following patterns. [Hint: The last two patterns require that each line begin with an appropriate number of blank spaces.]

```
(a)      (b)          (c)          (d)

*        *****************  *****************    *
**       ***************    ***************   **
***      **************    **************  ***
****     ***************    *************** ****
*****    **************    ************** *****
******   ***************    *************** ******
*******  ***************    *************** *******
******** **************    ************** *******
********* *****************  ***************** ********* 
********* ******          ******    ******     *********
*********    *****          *****    *****      *********
*********    **             **       **        *********
*********    *              *         *          *********
```

4. Write a program which will print the Fibonacci series up to some predefined number of elements. (Fibonacci series is a series of numbers that starts with one, or a zero followed by one, and proceeds based on the rule that each number is equal to the sum of the preceding two numbers.)