INTRODUCTION TO COMPUTER SCIENCE I
Fall 2014
LAB 5
Printing pretty 2-dimensional patterns

We have, on other problems, stumbled into situations where we need to use one loop inside another. However, here, we make it explicit and reveal the kinds of 2-dimensional patterns that such *nested loops* provide.

1   Three patterns

Create a new module (I recommend a name like `patterns.py`) that contains the following:

- A function `printSquare(n)` that prints a pattern like the following one (using, as an example, $n = 5$):

  ```
  +++++
  +++++
  +++++
  +++++
  +++++
  ```

- A function `printTriangle(n)` that prints a pattern like the following one (again, $n = 5$ as an example):

  ```
  +++++
  ++++
  +++
  ++
  +
  ```

- A function `printTree(n)` that prints the following patterns (e.g., $n = 5$):

  ```
      +
     +++
    +++++
   +++++++
  +++++++++
      |
  ```

- A function `main()` that obtains a value for n and then calls each of these three functions with that value.

- A call to `main()` to begin the sequence of function calls that make up this program.

2 Submitting your work

Go to the CS submission system to submit your code.

This assignment is due on Monday, Oct-27, 11:59 pm