

**Northeastern Illinois University**  
**CS 200: Programming I**  
**Professor Yehuda Gutstein**  
**Homework**

**Please zip all HW files, including source files (.java) and results (.txt) for this week in ONE folder and submit on D2L.**

**HW is due prior to the start of the next class.**

**At the beginning of each .java file, please include (in comments):**

```
//CS200  
//(insert here: Semester, Year)  
//Student Name  
//Instructor: Y. Gutstein  
//HW #x: (Name of HW)  
//Due: (insert due date here)  
//File name: (Insert FileName).java
```

**HW #1: Loops**

Create a program that will take as input a positive integer value greater than zero (0), and then determine if it is a prime number. The program will continue to take input & display results until the user chooses to '0' (quit).

Note: Make sure your prompts & displayed outcomes will be to the screen and should be user friendly. Input is from the keyboard.

Submit your output – Run for input: 2 , 4, 7, 9, 11, 13, 50, 562, 31, 16, 34, 29, 79, 17, 169 (saved in a notepad .txt file)

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**HW #2: Loops**

Create a .java file named OpenTriangle.java.

Write a program that asks the user to enter the height of a triangle (greater than 1).

The program should create an open triangle that has a base width equal to the height.

Your output should match the sample output provided below.

```
Enter a triangle height greater than 1: 5
*
* *
*  *
*    *
* * * * *
```

```
Enter a triangle height greater than 1: 2
*
* *
```

```
Enter a triangle height greater than 1: 3
*
* *
* * *
```