Instructions

1. Download the executable file [StackOverflowSimulator-1.6.jar](#) ⧉ from Files in Canvas. If you have a Java Runtime Environment set up, you should be able to double click on the file and have it open the tool. You can also download this version   and run it within the SEED virtual machine, which is already set up with a JRE. To get it to run, right click on the icon, select *Properties*, select *Permissions* tab, click the box to *Allow executing file as a program*. Close the dialog, then right click on the icon again, then select *Open with OpenJDK Java 6 Runtime*.If you have problems getting started, post a note to the Instructor Office section.
2. Work through the 4 buffer overflow simulation exercises. There is a description in the right window of the tool and a set of questions at the end of every exercise. Click the button labeled "Exercises" to select the next exercise to work on.

Notes

You will find a table of ASCII values (Google "ASCII Table") invaluable in doing this assignment. You will also want to switch the view of memory from hex to decimal to char as needed within the simulation.

Submission

Write your answer, along with appropriate screenshots, in a .doc, .docx, or .pdf file, and submit by the deadline for this unit.

Unit 2: Homework				
Criteria	**Ratings**			**Pts**
Exercise 1 – Question 1	1 point for correct starting and ending addresses 1.0 pts		Incorrect answers 0.0 pts 0.0 pts	1.0 pts
Exercise 1 – Question 2	2 points for starting and ending addresses for both variables 2.0 pts	1 point for starting and ending addresses for one variable 1.0 pts	Missing screenshot or incorrect data locations. 0.0 pts	2.0 pts
Exercise 2 – Question 1	1 point for correct output 1.0 pts		Incorrect answers 0.0 pts	1.0 pts
Exercise 2 – Question 2	1 point for correct output 1.0 pts	Incorrect answers or missing screenshot 0.0 pts		1.0 pts
Exercise 2 – Question 3	1 point for correct output 1.0 pts	Incorrect answers or missing screenshot 0.0 pts		1.0 pts
Exercise 2 – Question 4	2 points for correct input and reasonable explanation with screenshot 2.0 pts	1 point for correct input but missing or weak explanation 1.0 pts	Incorrect input or missing screenshot 0.0 pts	2.0 pts
Exercise 2 – Question 5	2 points for correct input and reasonable explanation with screenshot 2.0 pts	1 point for correct input but missing or weak explanation 1.0 pts	Incorrect input or missing screenshot 0.0 pts	2.0 pts
Exercise 3 – Question 1	1 point for correct addresses 1.0 pts		Incorrect answers 0.0 pts	1.0 pts
Exercise 3 – Question 2	1 point for correct addresses 1.0 pts		Incorrect answers 0.0 pts	1.0 pts
Exercise 3 – Question 3	1 point for correct addresses 1.0 pts	Incorrect answers or missing screenshot 0.0 pts		1.0 pts
Exercise 3 – Question 4	1 point for correct addresses 1.0 pts	Incorrect answers or missing screenshot 0.0 pts		1.0 pts
Exercise 3 – Question 5	1 point each for each address 3.0 pts	Report is missing 1 or more screenshots or has incorrect answers. 1.0 pts	Missing screenshot or has all incorrect answers 0.0 pts	3.0 pts
Exercise 4	Exploit string, rationale, and screenshot 3.0 pts		Wrong answers or missing screenshot 0.0 pts	3.0 pts
			Total Points: 20.0	