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COSC 366

23 September 2022

COSC 366 Programming Assignment 1

**Task 0: Screenshot of My Exploit.c Code**

Text

Description automatically generated

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**Task 1:**  **Screenshot of Successful Completion of Buffer Overflow**

Text

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I re-wrote this program to better achieve buffer overflow.

**Task 2: Screenshot of Successful Completion of Buffer Overflow Using a Bash While Loop, While ASLR is Turned On, and Explanation of Results.**

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Because ASLR is randomizing where things are in memory, it is much harder for our program to inject malicious code in places where it does not belong. For that reason, we get a segmentation fault instead of root access. The program may open the shell at some point, but it is very unlikely.

**Task 3: Screenshot of Results and Explanation for Results.**

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In this program, we compiled with the stack guard flag. This generates an error because exploit.c is interfering with or writing over parts of the stack that another program is using.