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CS405

**Assignment 2-3: Buffer Overflow Activity**

**Screenshots of console with program running:**

A computer screen with a black screen

Description automatically generated

A computer screen shot of a black screen

Description automatically generated

**Summary:**

For this assignment we were tasked with detecting when a buffer overflow was going to happen and preventing it. The scenario we were given for this assignment had to do with banking account numbers being randomly changed. Users were allowed to enter any number of characters which opened the door to possible issues. The first step towards solving this issue was limiting the amounts of characters a user could input. This was done by making MAX\_SIZE equal to 21 which also would account for 1 null element in the array. With this the user would be limited to only entering up to 20 characters. With this now in place code was added with an output to inform the user of a buffer overflow. To test the code first I tried entering my name then 1234 (Dylan1234) with this no there were no buffer issues and the account number was displayed. Next our input contained my name six times for a total of 30 characters (DylanDylanDylanDylanDylanDylan) with this our program caught the overflow and alerted us. While working through this assignment a big focus was to ensure my code was properly commented so others and I could better understand my process when reviewing the code in the future.