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CS 405 : Secure Coding

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When attempting to create a solution to this problem, I first identified my objectives. My primary objective here was to check for buffer overflow, write code to prevent buffer overflow, and determine how to react when user attempts buffer overflow. The primary issue with this program is the fact that the user input variable makes use of the char data type. When declaring this data type, it is necessary for the developer to also declare the maximum length of that string of characters. while useful if one can determine a max ahead of time. it allows users the ability to input data that exceeds this max value, thus causing buffer overflow. My solution was to use a data type that would adapt to the size of the users input. For this use case, the best solution was to use the string data type.