Luis alvarado

Date

Introduction to Programming in C

Small Programming Assignment 1

Collaboration Log

Professor Moran

**Collaboration Log**

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| **Source** | **Date** | **Time** | **Time Spent** |
| <https://en.wikipedia.org/wiki/For_loop> | 10/1/23 | 7:00pm | ~20 mins |
| Collaboration with <student\_name> about general memory allocation practices in C | 10/2/23 | 12:00pm | ~30 mins |
| Collaboration with <student\_name> about loop logic in C | 10/2/23 | 4:00pm | ~15 mins |
| Collaboration with ChatGPT, prompt “Please explain what is wrong with this code statement: int x = 3.5;” | 10/1/23 | 1:00pm | ~10 mins |

1-In C, it's important to use functions like malloc(), calloc(), and free() for dynamic memory allocation and deallocation to avoid memory leaks and ensure efficient memory management.

2-In C, loops like for and while allow repeated execution of code as long as the condition remains true. Common pitfalls include infinite loops when the condition is never met or off-by-one errors, which can cause incorrect iterations.

3-When you assign 3.5 to an int, the value will often be truncated or rounded, resulting in x being set to 3 instead of 3.5. This loss of precision is typically not desirable unless the programmer explicitly intends it.