

Background

It is common for users to accidentally enter invalid information into a computer. It is important that a program is capable of recognizing when invalid information is entered so that the user can be informed and given a chance to correct the mistake.

Instructions

- Complete the C24-1 assignment which introduces some simple input and output in C.
- Play with your C24-1 program a bit and determine if it behaves correctly when you type in a word instead of a number for the volume.
- Modify your program to gracefully recover from receiving an invalid entry of a single word from the keyboard. The user should be informed that an invalid input was entered and be given repeated chances to enter a proper number before the rest of the program executes.
- Include output that demonstrates your program recovering gracefully.
- **Hint #1:** Does the function `scanf()` return anything?
- **Hint #2:** If you detect that the user entered a word instead of a number, you will likely need to remove the entered word from the input stream so that it does not interfere with future input attempts. One way to do this is with the sub-specifier `*` within a format specifier in `scanf()`, which reads in data but ignores it and does not store it, such as in: `scanf("%*s");`.
- **Hint #3:** You will probably have to use a `while()` loop and/or a simple decision structure.