

Mini Quiz 4 Topic List

Mini Quiz 4 covers material from **Labs 1-7**, with emphasis on newer material. The following is a summary of what you should know.

New topics:

- while loops
 - o Checks condition at the beginning
 - o Example:


```
int n = 0;
while (n != 25)
{
    cout << "Please enter a number: ";
    cin >> n;
}
```
- do-while loops
 - o Checks condition at the end (will always run at least once)


```
do
{
    cout << "Enter a number: ";
    cin >> num;
}while (num != -1);
```

Topics from previous quizzes:

- for loops
 - o Runs a pre-specified number of times
 - o Example that runs 6 times:


```
for(int n = 0; n < 6; n++)
{
    cout << "blah" << endl;
}
```
- Totaler variables
 - o Build off previous values (ex. `total = total + i`)
 - o Should be initialized (given a starting value, like 0)
- If-else structures
- Notation for conditional testing
 - o `==` equal?
 - o `!=` not equal?
 - o `>`, `<`, `>=`, `<=`
 - o `&&` and
 - o `||` or
- Variables Types and Operations
 - o Arithmetic operations: adding, subtracting, multiplying and dividing.
 - o Modulus (%)
 - o Careful of mixing types (i.e. integer division results in integer answer)
 - o Typcasting
- How to use `cin` and `cout` for input and output.
- How to format your output (e.g. putting some information on different lines)

You will complete the quiz **on paper** during class. You will not be allowed to use the computer or any other reference material.