Mini Quiz 8 Topic List

Mini Quiz 8 covers material from **Labs 1-11**, with emphasis on newer material. The following is a summary of what you should know.

New topics:

- One dimensional arrays
 - How to declare arrays
 - How to refer to elements of arrays (indexing starts at 0!) and use loops to work with them
 - o Example:

• By default, arrays are passed by reference into functions (it's like the & is there but you don't need to write it)

Topics from previous quizzes:

- Parameters passed by reference (&)
 - o Passes the actual location in memory (not just a copy of its value)
 - o If the variable is changed in the function, it is changed outside the function also
- Functions
 - o Return types (output)
 - When we say a function <u>returns</u> a value, we mean that the return keyword is used
 - o Parameters (inputs)
 - When we say a function <u>accepts</u> a parameter, the parameter is passed into the function in the parameter list in the parentheses
 - Passed by value
 - o Variables only exist in the function they are declared in
 - o Variable types in prototype (declaration) and definition (code) must match
 - o Example:

```
// Function prototype
int addFunc (int a, int b);
//main program
int main()
{
int i, j, k;
  i = 12;
  j = 8;
  k = addFunc(i, j);
  cout << k;
  return 0;
}
//Function</pre>
```

```
int addFunc (int a, int b)
{
  int c;
  c = a + b;
  return c;
}
```

- switch cases
- while loops
- do-while loops
- for loops
- Totaler variables
- If-else structures
- Notation for conditional testing
- Variables Types and Operations
- 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 <u>on paper</u> during class. You will not be allowed to use the computer or any other reference material.