Introduction To Computer Programming C++
Mr. Clausen
Program C10A, C10B

Program 10A: Functions, Comments, And Output 15 points

Write a program that practices comments, output, and void functions. Rewrite program C1A into a program that has all the output information in a **void function**. Call this function void Display_My_Info ( ) which includes all the information you are supposed to include in every program displaying your information for the class. Turn this into a program using the int main function and just this one function call to the function Display_My_Info ( ). Save the program as LastNameFirstNameP10A.cpp in your "S:" directory. To see a model for this program, look at the source codes for the programs "1stfunct.cpp" in the network directory titled: IntroCompProgFiles. Look in the folder, Our Textbook Resources, Data Files Students, Unit 3 C++, and the Lesson 10 folder.
As you type all your programs this year, be sure not to type past the 80-column line in Borland C++ 5.02 for Windows. If you have any statements longer than 80 columns, press the return key to "wrap" the statement around to the next line.

1) Type comments at the beginning of the program to display your name and other information just like those used for program 1A. **Make sure to change the program name and program description in these comments, so that the program number, name, and description say what is listed above.**

2) Include <iostream.h> so we can use the **cout** and **cin** commands. Also include <conio.h> so you can use **getch**() to leave your output displayed on the screen until the user presses any key to continue.

3) Don't forget to include comments for your function, right before your function declaration.

4) Declare the function Display_My_Info ( ) in the function declaration section of the program.

5) Use a comment line with **equal signs** to separate all of the above from the int main function. For example:
//==========

6) Inside the **int** main() function, call the function: Display_My_Info ( ). This function call should be on the first few lines after the left curly bracket that begins the main function. **Don't forget that void functions are called just by writing the function name including any of the "actual" parameters.** Then tell the user to press any key to continue, have your getch() command, and your return 0 command.

7) After the **int** main() function, have a comment line of **subtraction signs** to separate the above from your function implementation lines below. For example:
//----------

8) Implement the function Display_My_Info ( ) which will output all of the information from program 1A.

9) After the last function implementation of this program, end your program with two comment lines of equal signs. This signifies the end of your source code. For Example:

```
//=========================================================
//=========================================================
```

When you are finished with your program, have tested it thoroughly to make sure that your program is correct, and are sure that you don't need to make any changes, then save your program in the "W" network mapping, and the Program 10A folder.

Program 4B: For A Song 20 points

Find the lyrics to a song that meet two criteria:

1) It follows the Verse, Chorus format and has at least two verses (three are preferred) and

2) the song is rated "G": no profanity, suggestive, or vulgar language (according to your instructor's perspective – as I will be the one grading your program), no violence, no referrences to controlled substances, etc.

Write a program that declares and implements a separate void function without parameters for each verse and for the chorus. **Don't forget to display blank lines between the verses and the chorus (This should be done in each function, rather than in the int main function).** Your program should display the lyrics to the song (after displaying your information) on the screen using "calls" to these functions. Your int main function should look something like this:

```
int main()
{

        Display_My_Info ( );
        Display_Verse_1();
        Display_Chorus();
        Display_Verse_2();
        Display_Chorus();
        Display_Verse_3();
        Display_Chorus();

        cout<<endl<<endl;
        cout<<"Press any key to continue…  "<<endl;
        getch();
        return 0;
}
```

Save the program as LastNameFirstNameP10B.cpp in your "S:" directory. To see a model for this program, look at the source codes for the programs "1stfunct.cpp" in the network directory titled: IntroCompProgFiles. Look in the folder, Our Textbook Resources, Data Files Students, Unit 3 C++, and the Lesson 10 folder.

As you type all your programs this year, be sure not to type past the 80-column line in Borland C++ 5.02 for Windows. If you have any statements longer than 80 columns, press the return key to "wrap" the statement around to the next line.

1) Type comments at the beginning of the program to display your name and other information just like those used for program 10A. **Make sure to change the program name and program description in these comments, so that the program number, name, and description say what is listed above.**

2) Include <iostream.h> (so you can use the cout and cin commands), and inlcude <conio.h> so you can use getch() to leave your output displayed on the screen until the user presses any key to continue.

3) There are no constants to declare.

4) Don't forget to include comments for each function, right before each function declaration.

5) Declare the functions: Display_My_Info ( ); Display_Verse_1(); Display_Verse_2(); Display_Verse_3(); and Display_Chorus(); in the function declaration section of the program.

6) Use a comment line with **equal signs** to separate all of the above from the int main function. For example:
//==========

7) Inside the **int** main() function, call the function: Display_My_Info ( ); Display_Verse_1(); Display_Verse_2(); Display_Verse_3(); and Display_Chorus(); as illustrated above. These function calls should be on the first few lines after the left curly bracket that begins the main function. **Don't forget that void functions are called just by writing the function name including any of the "actual" parameters.** Then tell the user to press any key to continue, have your getch() command, and your return 0 command.

8) After the **int** main() function, have a comment line of **subtraction signs** to separate the above from your function implementation lines below. For example:
//----------

9) Implement the functions Display_My_Info ( ), which will output all of the information from program 10A. Also, implement the functions Display_Verse_1(), Display_Verse_2(), Display_Verse_3(), and Display_Chorus(), which will consist of cout statements to display the lyrics to the verses and chorus and cout statements to display blank lines.

10) After the last function implementation of this program, end your program with two comment lines of equal signs. This signifies the end of your source code. For Example:
//==========
//==========

When you are finished with your program, have tested it thoroughly to make sure that your program is correct, and are sure that you don't need to make any changes, then save your program in the "W" network mapping, and the Program 10B folder.