

## CODE AND ALGORITHM STYLE SHEET

Use this as a template for your C++ projects in this class.

Comments with <> you should change appropriately, and please remove the <>

```

/*****
* AUTHOR: <your name>
* COURSE: CS 150: C++ Programming 1
* SECTION: <class days + time>
* NC (PROJECT)#: <#>
* LAST MODIFIED: <date of last change>
*****/

/*****
* <TITLE OF PROGRAM>
*****/
* PROGRAM DESCRIPTION:
* <1-2 sentences describing overall program>
*****/
* * ALGORITHM:
* <Pseudocode here>
*****/
* ALL IMPORTED LIBRARIES NEEDED AND PURPOSE:
* <ex: chrono used for time operations (C++ 11 and on)>
*****/

#include <cstdlib>
#include <iostream>

using namespace std;

int main(int argc, char *argv[])
{
    /***** CONSTANT SECTION *****/

    /***** DECLARATION SECTION *****/

    /***** INITIALIZATION SECTION *****/

    /***** INTRO SECTION *****/

    /***** INPUT SECTION *****/

    /***** PROCESSING SECTION *****/

    /***** OUTPUT SECTION *****/

    // system("PAUSE"); //for DevC++ on windows
    return EXIT_SUCCESS;
}
```

## SAMPLE OF COMPLETED PROGRAM:

```

/*****
* AUTHOR: Miguel O'Spartan
* COURSE: CS 150: C++ Programming 1
* SECTION: T/R 11:00am - 12:50pm
* NC (PROJECT)#: NC #01
* LAST MODIFIED: 01/01/2099
*****/

* Average of Two
*****/

PROGRAM DESCRIPTION:
* Reads two integers from the user and computes their average.
*****/

* ALGORITHM:
* 1. PROMPT "Please enter first number: "
* 2. READ num1
* 3. PROMPT "Please enter second number: "
* 4. READ num2
* 5. CALCULATE sum = num1 + num2
* 6. CALCULATE average = sum / 2
* 7. OUTPUT average
*****/

ALL IMPORTED LIBRARIES NEEDED AND PURPOSE:
* <cstdlib> Provides standard functions, including dynamic memory management,
* random number generation, communication with the environment,
* integer arithmetics, searching, sorting and converting.
* <iostream> Used for console input and output (cin and cout)
*****/
#include <cstdlib>
#include <iostream>

using namespace std;

int main(int argc, char *argv[])
{
    /***** CONSTANT SECTION *****/
    const int NUMS = 2;

    /***** DECLARATION SECTION *****/
    int num1, num2, sum;
    double average;

    /***** INITIALIZATION SECTION *****/
    // No initialization needed for this program.

    /***** INTRO SECTION *****/
    cout << "Welcome to My Average-of-Two Program!\n\n";

    /***** INPUT SECTION *****/
    cout << "Please enter first number : ";
    cin >> num1;
    cout << "Please enter second number: ";
    cin >> num2;

    /***** PROCESSING SECTION *****/
    sum = num1 + num2;
    average = sum / (double) NUMS; // Cast to double to retain decimal places.

    /***** OUTPUT SECTION *****/
    cout << "Your average = " << average << endl;

    // system("PAUSE"); //for DevC++ on windows
    return EXIT_SUCCESS;
}
```

## SCREENSHOT OF COMPLETED PROGRAM: .

```
Console Shell
> clang++-7 -pthread -std=c++17 -o main main.cpp
> ./main
Welcome to My Average-of-Two Program!

Please enter first number : 50
Please enter second number: 55
Your average = 52.5
> |
```