COP 2535: Data Structures

Exercise 01, Hello

1   Instructions

Write a C++ program. It will take no input. The output will displan "Hello World," the name $\mathbf{C++}$ as shown below, and your machines hardware information. Use the template I have specified. Note that this contains a header, which you should *always* include. Failure to include a header with this information in the course will result in failure.

You should be able to complete this program from the first two chapters in the text. You are responsible for discovering how to obtain the hardware information on your own. A quuick internet search should do the trick.

The purpose of this exercise is to make sure you know how to write, compile, and run a C++ program in Visual Studio. I hope that you will find this quick and easy.

2   Template

```
/**************************************
        Name: Exercise01
        Author:
        Date:
        Purpose: print hello and system information
        Input: none
        Output: name and system info
**************************************/

#include <iostream>
#include <windows.h>
#include <stdio.h>
#pragma comment(lib, "user32.lib")

using namespace std;


int main()
{
    //print Hello World

    //print C++

    //print hardware info
        SYSTEM_INFO siSysInfo;

        // Copy the hardware information to the SYSTEM_INFO structure.

        GetSystemInfo(&siSysInfo);
```

```
        // Display the contents of the SYSTEM_INFO structure.

        return 0;
}
```

3   Output

Your deliverable is a text file that will look similar to this. You should be able to select your output screen, copy it (with Ctl-C), and insert it into the text entry box (Ctl-V).

```
Hello world

CCCCCCCCC
CCCCCCCCC      ++            ++
CC             ++            ++
CC             ++            ++
CC          ++++++++    ++++++++
CC          ++++++++    ++++++++
CC             ++            ++
CC             ++            ++
CCCCCCCCC      ++            ++
CCCCCCCCC


Hardware information:
  OEM ID: 9
  Number of processors: 12
  Page size: 4096
  Processor type: 8664
  Minimum application address: 10000
  Maximum application address: fffeffff
  Active processor mask: 4095
```