COP 3530 Assignment 1 Due: August 30th, 2013

In the first assignment you will learn: how to create a Makefile, how to write a simple C++ program, and how to tar your files. You are required to include three files header.h, main.cpp, and Makefile in your single tar file submission.

header.h contains only a void function print\_factorial() which computes the factorial of the number entered by the user.

main.cpp includes the file header.h and contains the main function in which it calls the method print\_factorial().

In the Makefile you should compile your source code and create the executable file “main”.

You must use g++ which is the GCC C++ compiler in GNU compiler collection package.

We will test your submissions by following these steps (commands on **thunder** machine):

1. tar xvf “<your name>\_UFID.tar”

2. make

3../main

What the function print\_factorial() does should be similar to (the bold part):

**thunder:29% ./main**

**Enter a number(or enter ‘q’ to quit): 1  
1! = 1  
Enter a number(or enter ‘q’ to quit): 2  
2! = 2  
Enter a number(or enter ‘q’ to quit): 3  
3! = 6  
Enter a number(or enter ‘q’ to quit): 4  
4! = 24**

**Enter a number(or enter ‘q’ to quit): q**

**You have left the game!**

**thunder:30%**

Each of the following is required in all assignments:

•Your submission should be portable to unix machines, since we test your codes on the thunder

server (thunder.cise.ufl.edu). For information on thunder, please refer to <http://cise.ufl.edu/help/access/>.

•The .cpp file (say, ProgramName.cpp) must compile successfully.

•A softcopy of the source code (.cpp file, NOT .o file) needs to be submitted in the tar file via Sakai.

•The submitted file must be properly tarred. The simplest syntax of the tar command is as follows.

To create a tar file:

tar cvf (tar file name) (file 1) (file 2) (file 3)...

To extract the contents of a tar file:

tar xvf (tar file name)

Note:

You can verify that your submission was successful by downloading your submission from Sakai

and successfully untarring it.

Please visit [here](http://www.cise.ufl.edu/class/cop3530fa13/SubmissionRules.htm) for more information on submission rules

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