CS 135
Exercise #1
Point value: 10
Date due: send email (using mail utility described below) to your lab instructor by 11:59pm Wed, Sep 6

This exercise is designed to introduce you to

- using the CS computer lab
- changing your CS password
- the Linux cp, more, and cat commands
- compiling and running a C++ program
- remote login using ssh
- email a file using mail utility

Change your CS password

- Check your Rebelmail for a message with your CS account information. This account will allow you to login to the CS Computer lab machines (TBE B361) and the CS department's remote servers.
- If you did not receive an email with your CS account information, it is because you already have a CS account or added the class after new accounts were generated.
  - Go to the CS Account Application web page: tux.cs.unlv.edu/AccountApplication/ to request an account or to reset your password.
- Read the Changing CS Account Password handout.
- Log in to your cs account using your login name (RebelMail user name) and password.
  - If this is the first time you are logging in, it will be the password in the email.
  - If you already have an account, your password has not expired.
  - If you cannot remember your password, request a password reset at the tux website (see link above).
- Follow the instructions on the handout describing how to change your password.
- Test your new password.
  - Log out of your account.
  - Log back in using your new password.

Compiling and Executing a C++ Program (Linux)

- The file, exercise01.cpp is located in the following directory: ~lee/cs135labs.
- Use the following command to copy the file into your account:
  - `cp ~lee/cs135labs/exercise01.cpp yourfilename.cpp` (press Enter)
- (you may choose what you want to call the file, but make sure the name ends with .cpp)
- Use the more or cat command to look at what is in the file.
- Compile the program with the command: `g++ yourfilename.cpp` (press Enter)
- To execute (run) the program, type: `./a.out` (press Enter)

Using ssh (in TBE B361) to login to bobby.cs.unlv.edu
bobby.cs.unlv.edu is the cs department's general purpose login machine. You can connect to this machine using a program called ssh from the cs lab (TBE B361) and from home (see Download/Install SSH section below.)

- In TBE B361, at the system prompt type: `ssh bobby.cs.unlv.edu`
- When prompted, type in your cs password. (It will not be displayed to the screen.)

When you are connected to bobby, you will be able to access your cs account files. **You MUST login to bobby to use the mail utility and to submit your programs.**

Sending Email from bobby.cs.unlv.edu

- Read the [How to Email Lab Assignments from CS Servers](#) handout. This handout explains how to email a file.
- Use the mail utility to email the program file copied from cs135labs/ to your lab instructor.
  - The subject line of the message MUST contain your name, exercise#, lecture section#, and lab section#.
  - The body of the message must contain your program file.
  - The message MUST be sent to your lab instructor.
  - It is a good idea to send a carbon copy of the message to yourself (-c option, shown below).

- Make sure you are logged in to bobby.cs.unlv.edu (from home or in TBE B361).
- Use the more or cat command to verify the content of the file you want to send. Make sure it compiles and runs.
- At the system prompt, type the command to email your file to your lab instructor (filename is the name of the file you created):

```
mail -s "your_name, exercise#, lec_sec#, lab_sec#" -c your_email_add
lab_instructor's_email_add < filename
```

- Make sure you press Enter after typing the command.
- For example, if Mary Smith (RebelMail address is smith987@unlv.nevada.edu) is in lecture section 1001, lab section 1011 and wants to email her program file called maryex1.cpp to her lab instructor (email address labteacher@unlv.edu), then the command would be:

```
mail -s "Mary Smith Exercise #1 Lec 1001 Lab 1011" -c smith987@unlv.nevada.edu
labteacher@unlv.edu < maryex1.cpp
```

Download/Install SSH - Remote Login

- Read the [Using SSH to Remotely Access Computer Science Servers](#) handout.
- If you are a Windows user, follow the instructions to download and install SSH onto your personal computer (not the lab machine).
- If you are a Mac user, SSH is pre-installed. Follow the instructions to locate and use it.
- Use SSH to login to bobby.cs.unlv.edu using your cs login name and new password.
- When you are finished with your terminal session, make sure you logout (type logout or Ctrl-d at the command prompt) before closing the terminal window.

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