

# Computer Programming I

## Quick Ref / Bookmark

### 33YUJH, IS 230, Fall 1999)

## Professor

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## ewan/Telnet

Assume you are using Microsoft Windows.  
Available use **ewan**, else use **telnet**  
Start / Find / Telnet  
Connect to **is230.byuh.edu**  
First Time Login: **new**  
This creates your account.  
**wclient** (NetWare Client)  
This makes you able to print.  
You have trouble, talk to me or the TA.

## Unix Commands

**passwd** change your password  
**emacs filename** edit filename  
**gcc Gnu C Compiler**  
**ccc abc.c -o abc** compile abc.c  
**cat** (concatenate) type out a file  
**-l** list (long format) the directory  
**mv** move (rename) a file  
**rm** remove (delete) a file  
**rmdir** make a new directory  
**cd** change directory  
**pwd** print working (current) directory  
**mkdir** remove a directory  
**du** disk usage (lists directory tree)  
**df** disk freespace  
**ps** see who is logged in  
**top** see why machine is slow

**exit** log out  
**logout** log out  
**Delete-key** delete prior character  
**Backspace-key** not always = delete

## Emacs Commands

**M-** (meta) means press Esc first  
**C-** (ctrl) means hold down Ctrl  
**C-h t** read the emacs tutorial  
**C-p** previous line (cursor up 1)  
**C-n** next line (cursor down 1)  
**C-f** cursor forward one position  
**C-b** cursor back one position  
**C-d** delete current character  
**Delete-key** delete prior character  
**C-a** jump cursor to start of line  
**C-e** jump cursor to end of line

**C-l** (el) center and redisplay screen  
**C-k** delete (cut) to end of line  
do it several times to get several lines  
**C-y** yank back (paste) what was deleted  
**C-g** cancel the command in progress  
**C-s** search (type one letter at a time)  
**C-\_** undo last change  
**C-x u** undo last change  
**C-x C-s** save (often)  
**C-x C-w** save-as (rename)  
**C-x C-f** edit a different file  
**C-x i** insert a different file  
**C-x C-i** not same as **C-x i**  
**C-x C-c** exit emacs

## Compiling/Testing

**C-x C-w dem1-1.c** save your file  
**C-z** shell out to the command line  
**gcc dem1-1.c -o demo** compile  
**demo** run it  
**nwprint gcb150 dem1-1.c** print it  
**nwprint gcb150 dem1-1.c 1** bigger  
**fg** return to emacs (foreground)

## Submitting/Rmail

**M-x rmail** run mail from emacs  
**m** start a message  
**C-x 1** (one) reduce screen to one window  
**To: GradeBot@gradebot.byuh.edu**  
**Subject: is230 labname** submit a lab  
**Subject: is230 status** for status report  
**BEGIN** on line before program (optional)  
**C-x i** insert the program you want to send  
**END** on line after program (optional)  
do **not** use any attachments  
do **not** use any fancy encoding  
**C-c C-c** send the message

after sending wait five seconds...  
**g** get new mail  
**n** go to next message  
**p** go to previous message  
**d** delete current message  
**e** continue editing a message  
**C-x 2** split screen into two windows  
**C-x o** jump to next (other) window  
**q** quit mail, go back to emacs

## Required Changes

Declare "main" to return an int.  
int main ( ...  
Make your output end on a fresh line.  
printf("\n"); (if needed)  
Make your exit status informative.  
return 0; (from main)  
Make gcc as picky as GradeBot  
gcc -pedantic-errors -Wall ...  
GradeBot may want different wordings.

## Teaching Assistant

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