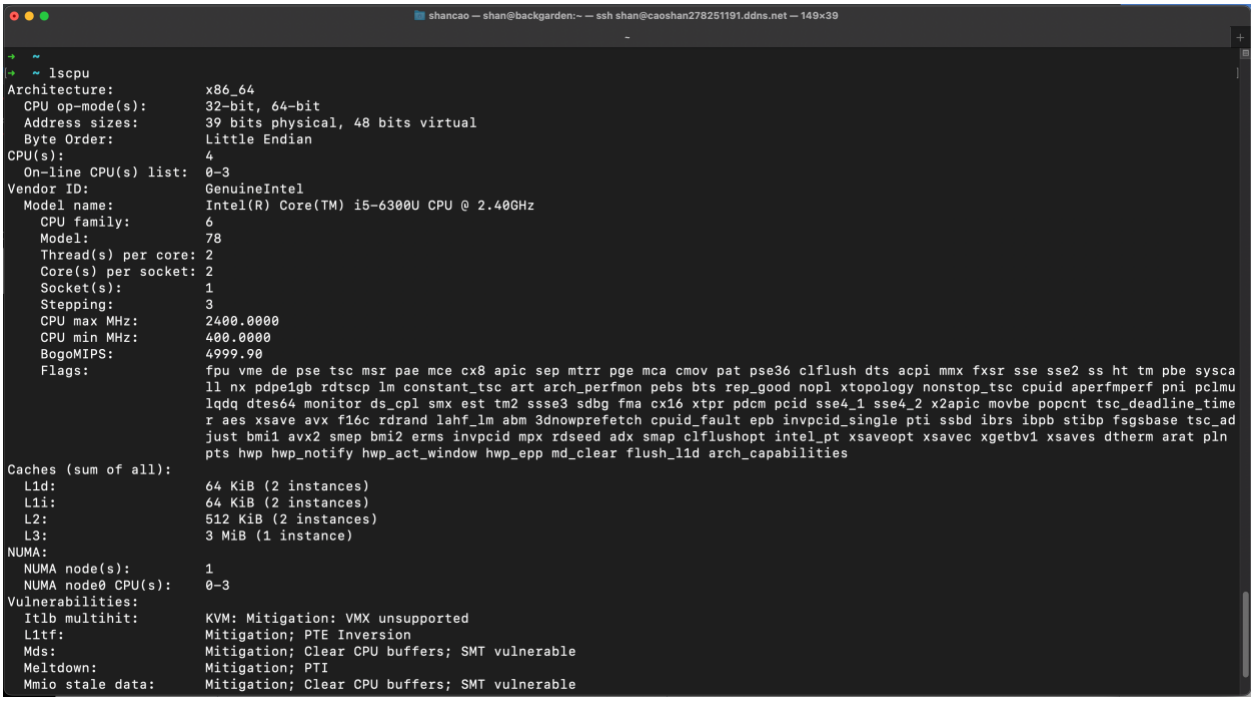
Question 1: How many CPUs is contained on this machine?

Use command lscpu, this shows the PC has 4 CPUs



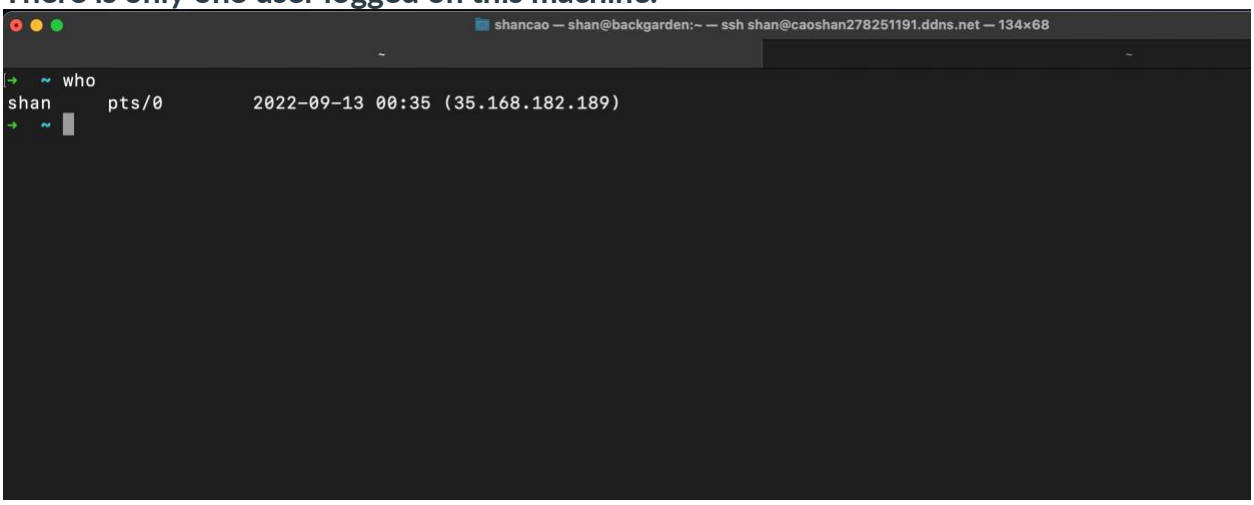
Question 2: What type of CPU is in this machine. How many physical cores are available on the machine?

This CPU has Intel(R) Core (TM) i5-6300U CPU @ 2.40GH processor.

There are 4 physic cores on this machine

Question 3: Using 'who', determine how many users are logged onto the machine?

There is only one user logged on this machine.

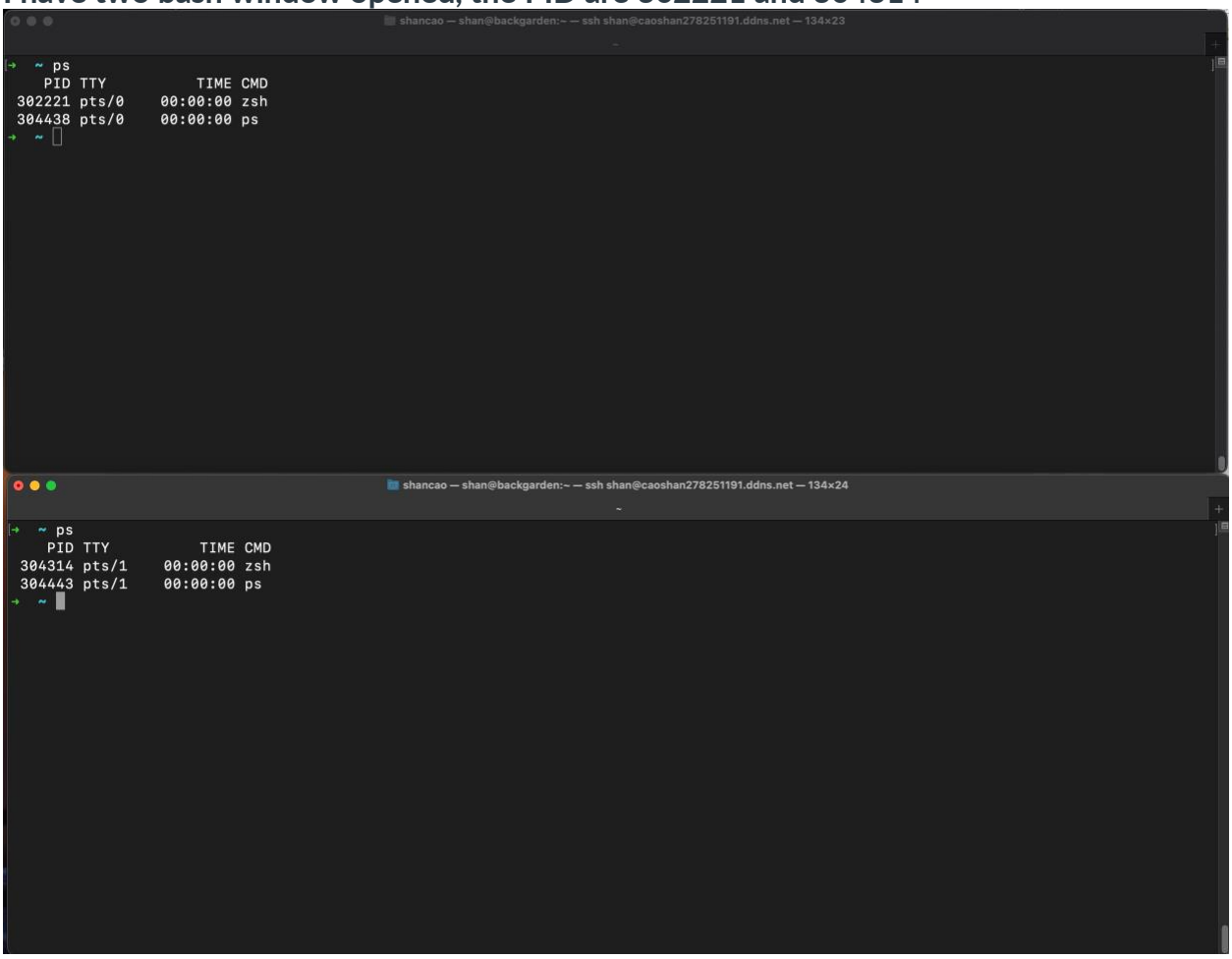


Question 4: Using 'top', determine how much idle time is available on the machine.

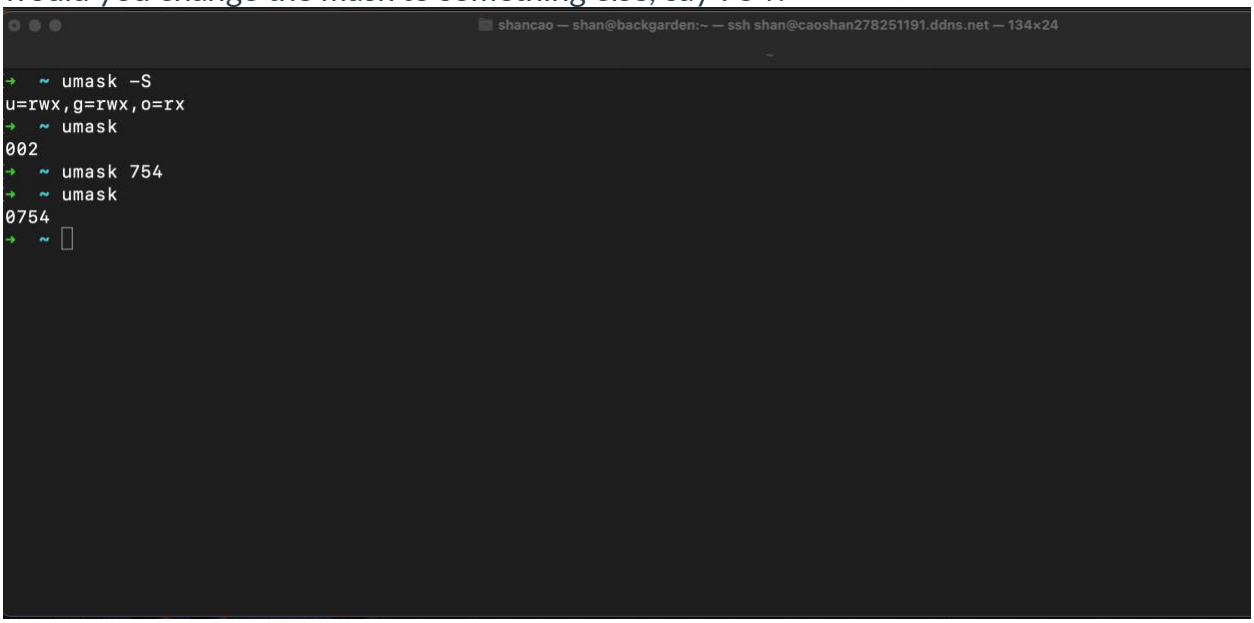
The top command will keep monitoring the status of the Linux, by the time that I grep the system CPU idle time, it is 93.8% idle.

Question 5: Open multiple bash windows (or terminals) and report their process IDs using "ps" command.

I have two bash window opened, the PID are 302221 and 304314



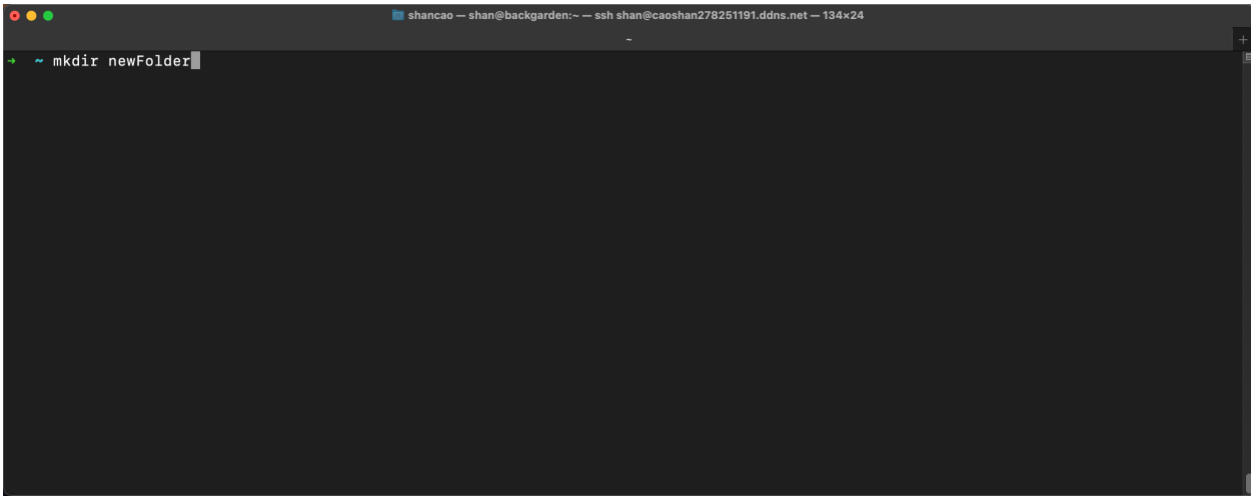
Question 6: Assume that the current umask for a temporary file is set to 002. How would you change the mask to something else, say 754?



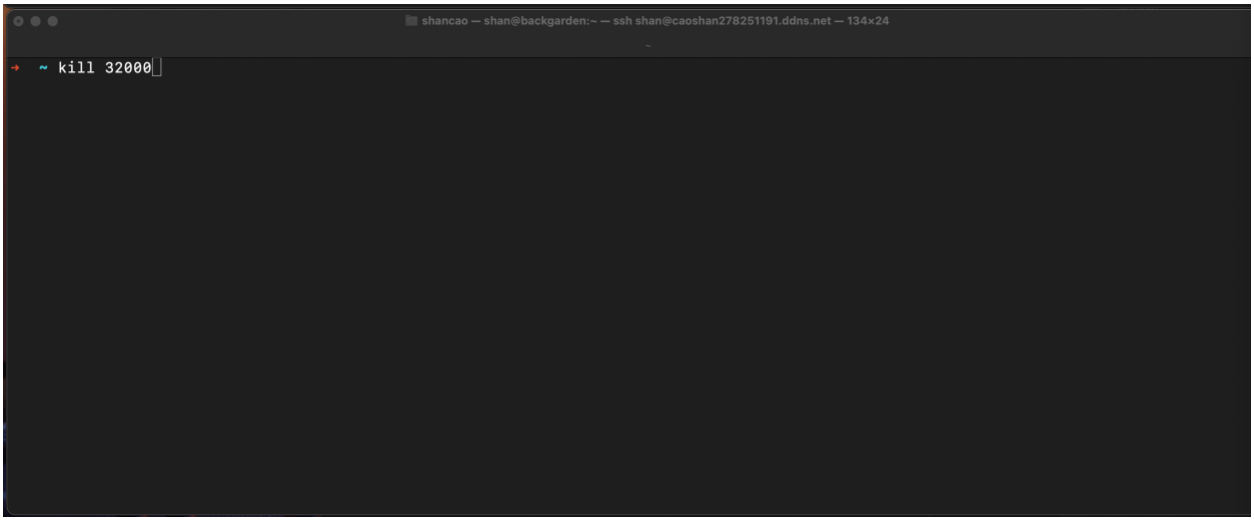
Question 7: Find four other linux Shell commands/System Programs not listed on the above link. Use 'man' command to find more details for each and provide an example for how to use them. Example: mkdir, kill, ls, cd, cal, cat, compress, date, diff, eval, find, mail, etc.

I use man command to check the manual of the following command mkdir kill vimdiff and tar

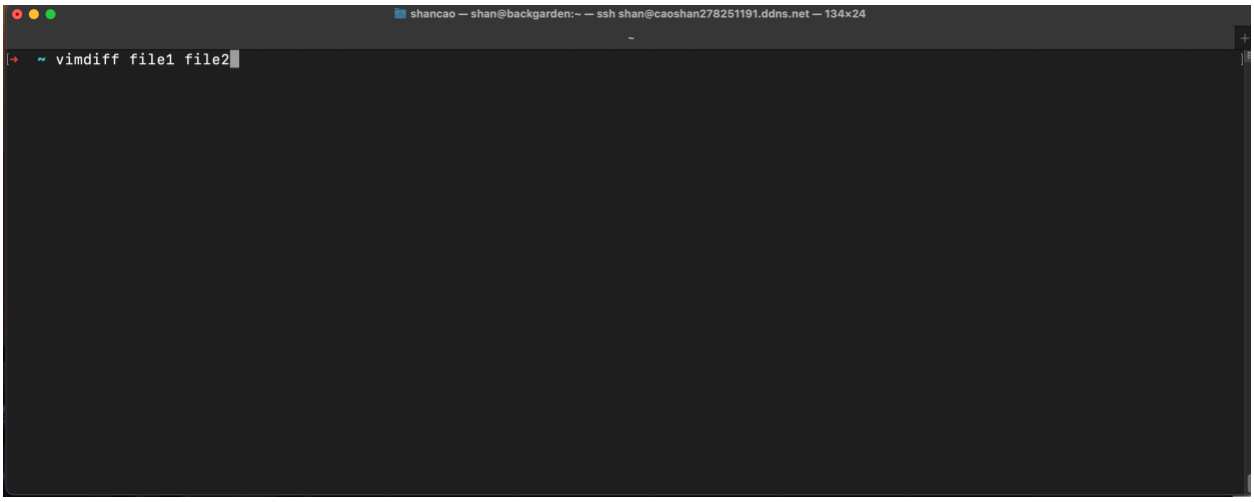
Use mkdir to create a new folder.



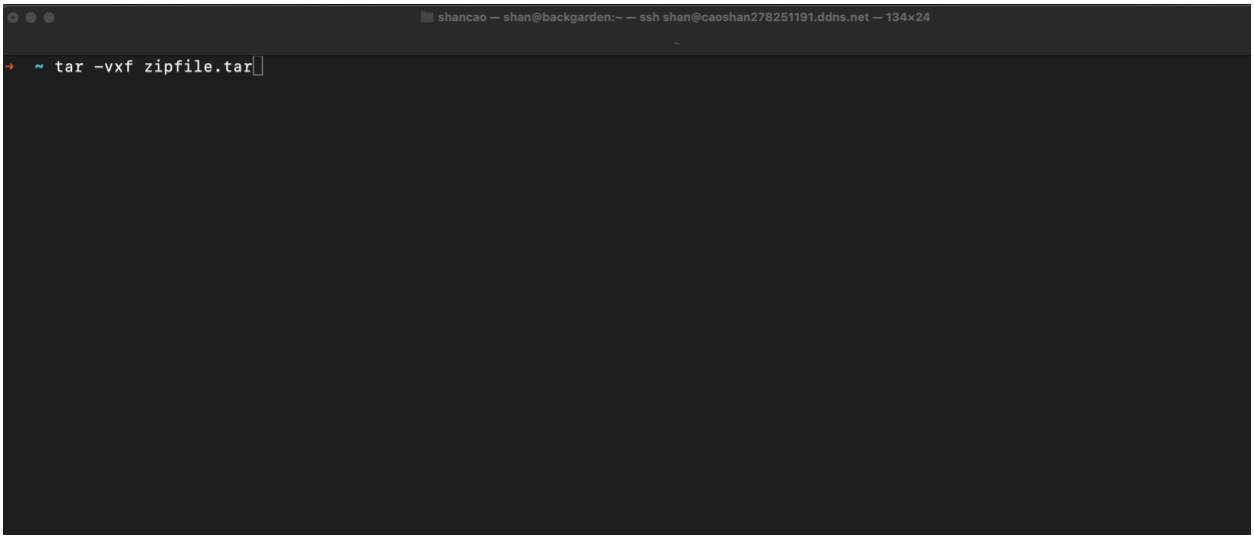
Use Kill command to kill a process, the 32000 is a process ID that was taken from the top command



Use vimdiff to find the difference between file1 and file2

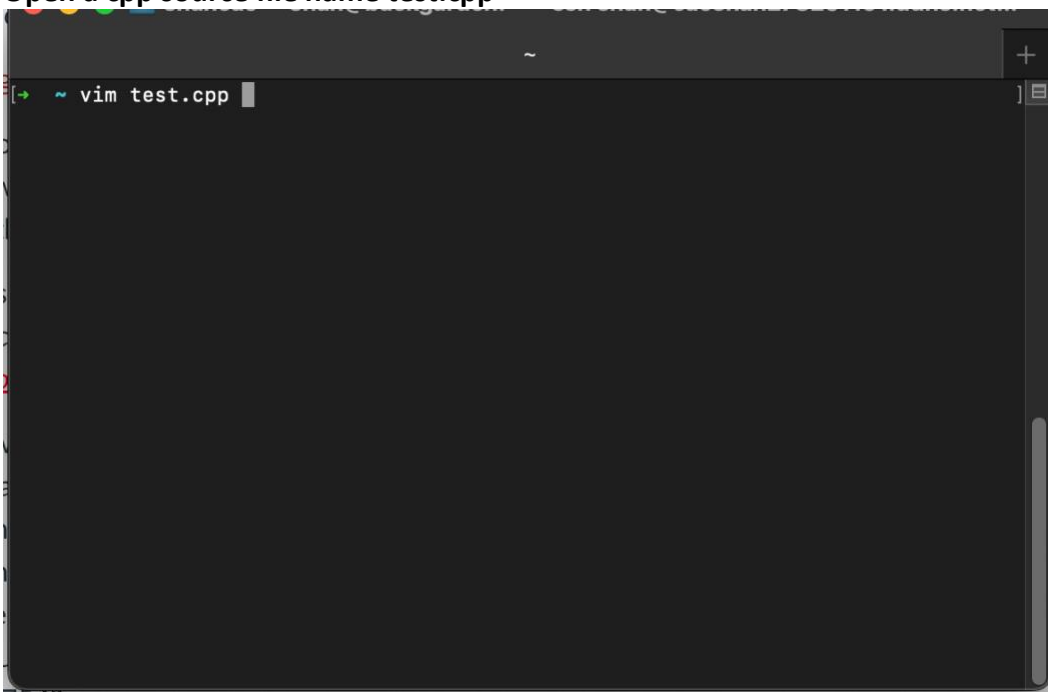


Use tar extract a tarball file

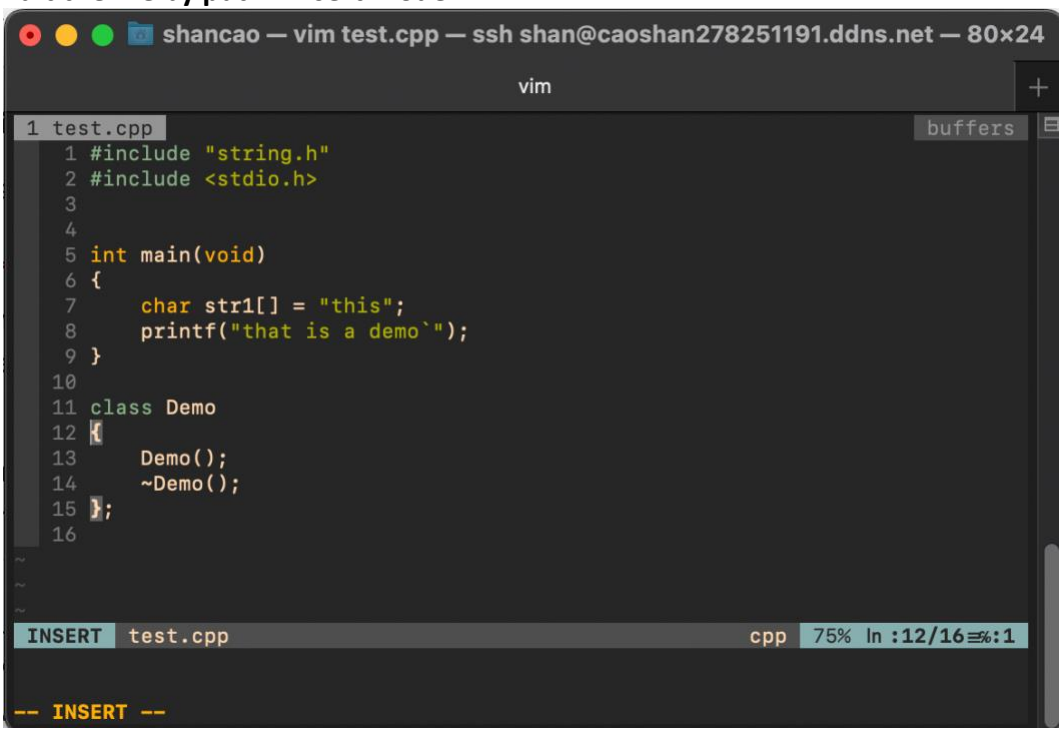


Question 8: Choose any editor from Emacs, vim, or vi. Show at least 4 commands or options (e.g., to open, edit, save, close, a file) with these editors. No other editor allowed!

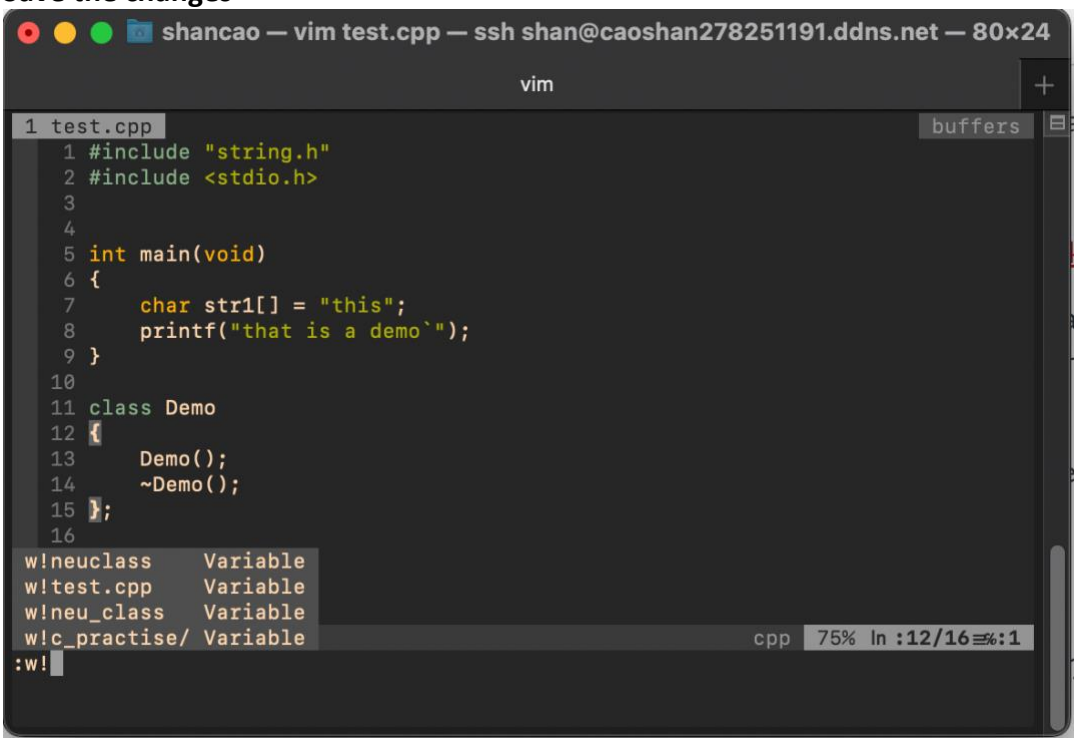
Open a cpp source file name test.cpp



Edit the file by put in insert mode



Save the changes



Close the vim