*Unix Take Home Exam*

1) Please create a file with the name: “TakeHomeExam\_yourname.txt”; all the answers will be put in this file. Let’s call it the answer sheet.

2) I would like to see currently how many processes are running in the service. For example, how should I know that whether the other people are currently running a program that takes up a lot of CPU memories? What kind of commands that I should type in the command line? Please Copy the output into the answer sheet. [I only need the top 10 lines that are shown on the screen.]

3) In my directory: */home/shuhao/HomoChimpMacaca*, there is a file with a size: 2704. Please cut the first 15 lines in the file and copy it into the answer sheet. I also need the last 20 lines. Copy them into the answer sheet.

4) In the file: triplet.txt that also in my directory */home/shuhao/HomoChimpMacaca.* There is a line “*AGA AAA 134399*”. This means that the number of *AGA* being substitute into *AAA* is *134399*. I am curious about the number that happens to “ACA AAA” and “ATA AAA”. Please use the “grep” to do this Qs. Copy the command and the number into the answer sheet.

5) I have a perl program in my directory */home/shuhao/HomoChimpMacaca* with name: dinucleotide.pl. Run this perl program and appended the results into the answer sheet. (***Warnings: The results are appended instead of substituting the existing contents.***)

6) Using the Grep to word count the following sequences: *tcacggcacccaggcaatccacc* in my file *chrY\_hsptmm.txt* in the directory ***/home/shuhao/HomoChimpMacaca***. Please put your answer in the answer sheet.

7) Bonus Qs:

I want to know where is this file exist: *FitnessTable\*.txt* . How is the command that looks like? Type your command in the answer sheet. (Note, there are more than one files with that name.)

*Finally, let me know if you have any questions regarding understanding the questions in this exam.*

Submit your homework:

Transfer the answer sheet to your desktop and email it to [Alexei.fedorov@utoledo.edu](mailto:Alexei.fedorov@utoledo.edu) and also to Shuhao Qiu: [Shuhao.Qiu@rockets.utoledo.edu](mailto:Shuhao.Qiu@rockets.utoledo.edu) .Please mention Linux\_exam\_yourname in the subject line of the mail.