Week 3 Exercises

## In-class

1. Try it out:

./scripts/week3/batch\_on\_rhino.sh

1. Try it out:

#| eval: false  
sbatch sbatch\_test.sh

and examine the following output files:

1. Try it out:

## Homework exercises

Exercises 1, 2, 3 are required for the badge.

1. In the data/ folder, there is a list of .csv files. Modify the code below to process each file.

#!/bin/bash  
for file in ------  
do  
 head ------  
done

1. Modify the code in 1) to write a for loop in a script to count the number of lines for each .csv file. The output should be:

echo "${file}\t(wc -l $file)\n"

Run the script and redirect your output to files\_out.txt. Put your bash command you used below:

1. Modify the below script to process the .sam files in ./data/. Save it as sbatch\_sam.sh and run it. How many files were generated?

#!/bin/bash  
#SBATCH --array=1-\_\_\_\_\_\_\_\_   
module load SAMtools  
file\_array=(./data/\*.sam)   
ind=$((SLURM\_ARRAY\_TASK\_ID-1))   
current\_file=${file\_array[$ind]}   
samtools view -c $current\_file > ${current\_file}.counts.out