## **Bash Assignment Hints**

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to get the second field of each line in file "triples"
    awk '{print $2}' triples
to get the second field of all files that start with the string "tri"
    awk '{print $2}' tri*
to save the result to the file "col2"
         {'print $2}' tri* > col2
to append the result to the file "col2"
    awk {'print $2}' tri* >> col2
to sort the file "carmen"
    sort carmen
to sort the file "carmen" by the second field
    sort -k 2 carmen
to find the five largest numbers in the third field of "carmen"
    sort -k 3 -nr carmen | head -n 3
to substitute all dashes with spaces
    cat carmen.txt | sed 's/-/ /g` > carmen-no-dashes.txt
to find all lines containing the string "bog" in file "large"
   grep bog large
to find all lines containing the string "bog" followed by a space
   grep "bog " large
to save the result to "boglines"
   grep bog large > boglines
to save a sorted list of the third field of all lines in large that contain the string bog
   grep bog large | awk {'print $3'} | sort > boglines
find all lines with the word "bog" at the end of the line
   grep "bog$" large
```

to find all lines in file that contain a digit grep "[0-9]" file

to find all lines in file that contain a three-digit string grep "[0-9][0-9][0-9]" file

to find all lines in file not containing a three-digit string grep -v "[0-9][0-9][0-9]" file

to learn more about grep man grep

to learn more about join man join

to join two sorted files (for each pair of lines with the same first field, output a line containing all fields of both lines)

join file1 file2

For example if file1 is carlos smith josh hernandez zaid Suzuki

and file 2 is
carlos m 23
elfie f 19
josh m 21

then the output will be carlos smith m 23 josh hernandez m 21

## **Cygwin Notes**

If creating a script and running it under cygwin (on a Windows machine):

- 1) the first two lines of your bash script should be:
  #!/usr/bin/bash
  (set -o igncr) 2>/dev/null && set -o igncr; # comment is needed
- 2) If you get "command not found" errors when you try to run your script, e.g. myscript.sh, this may be due to different encodings for line endings, and may be fixable with dos2unix myscript.sh