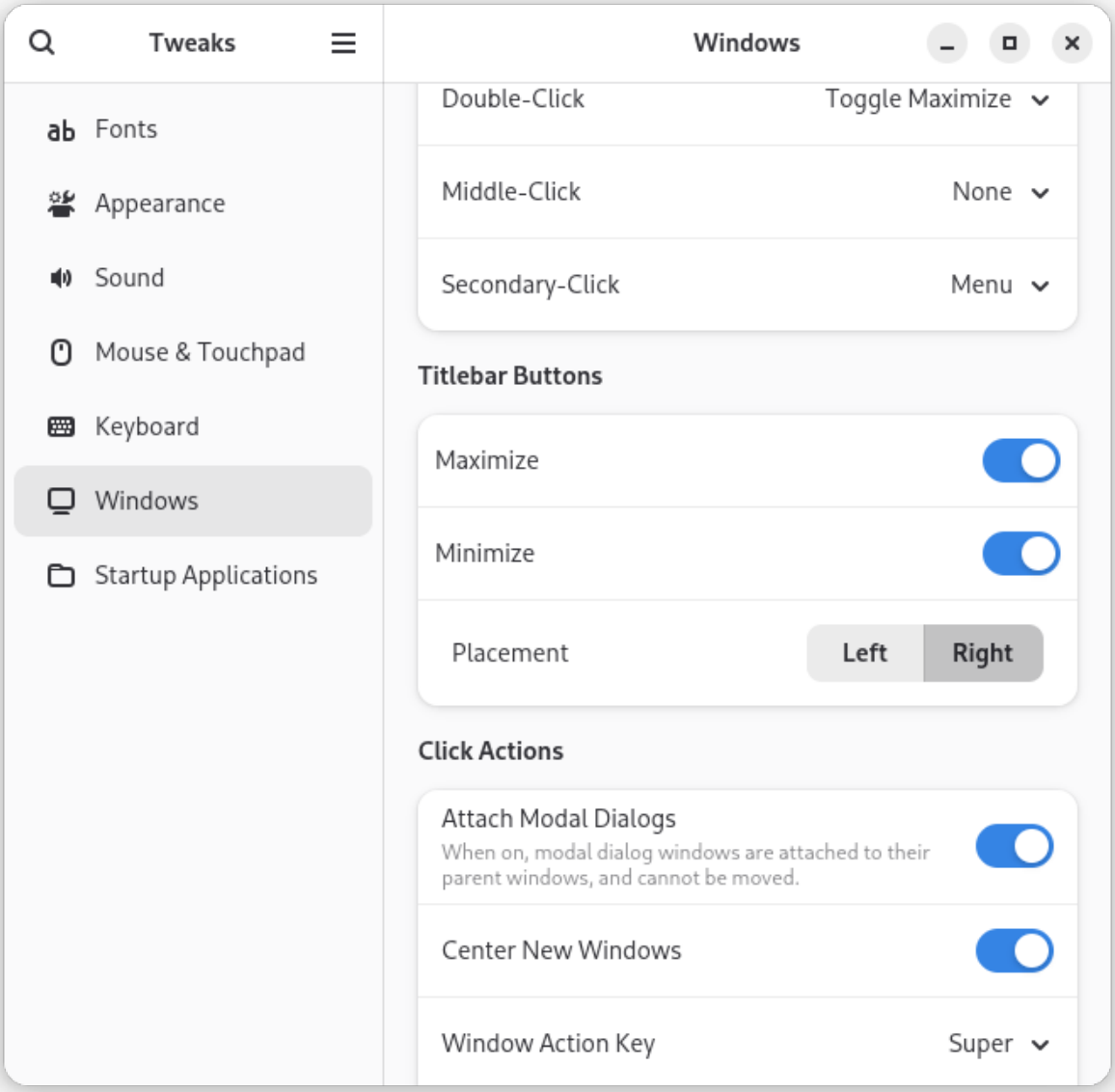
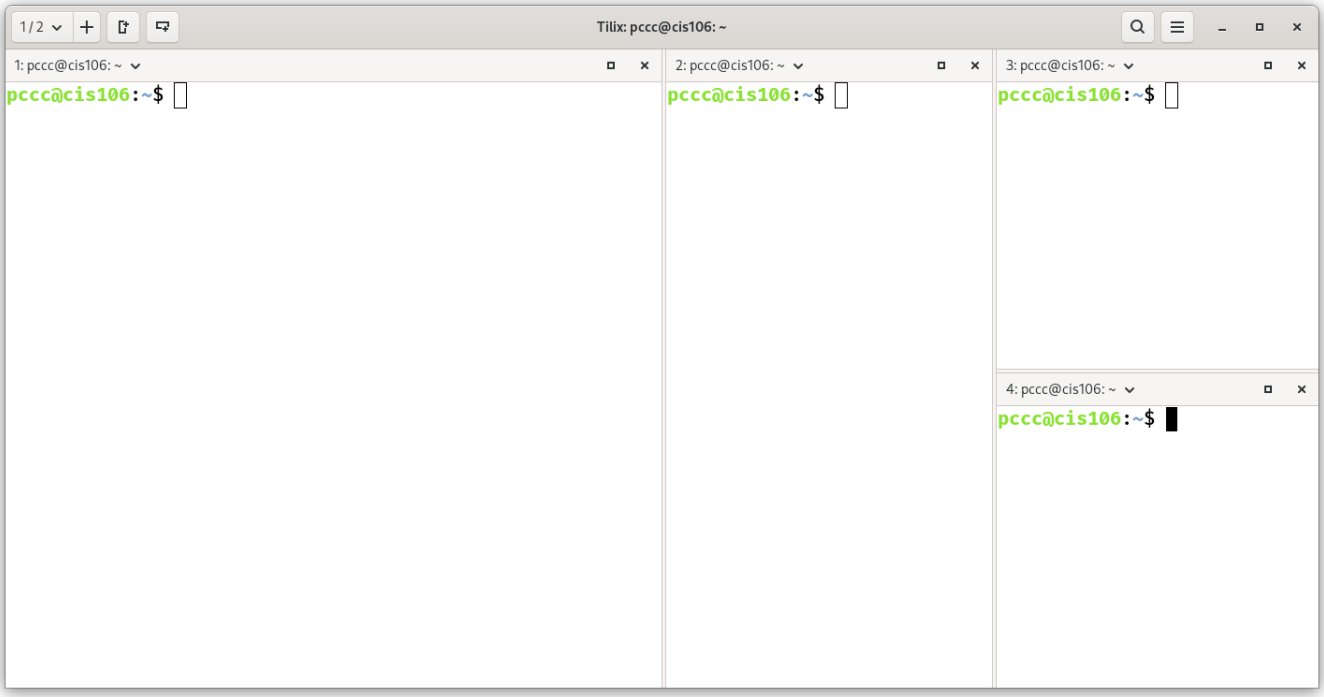
Lab 3 Submission

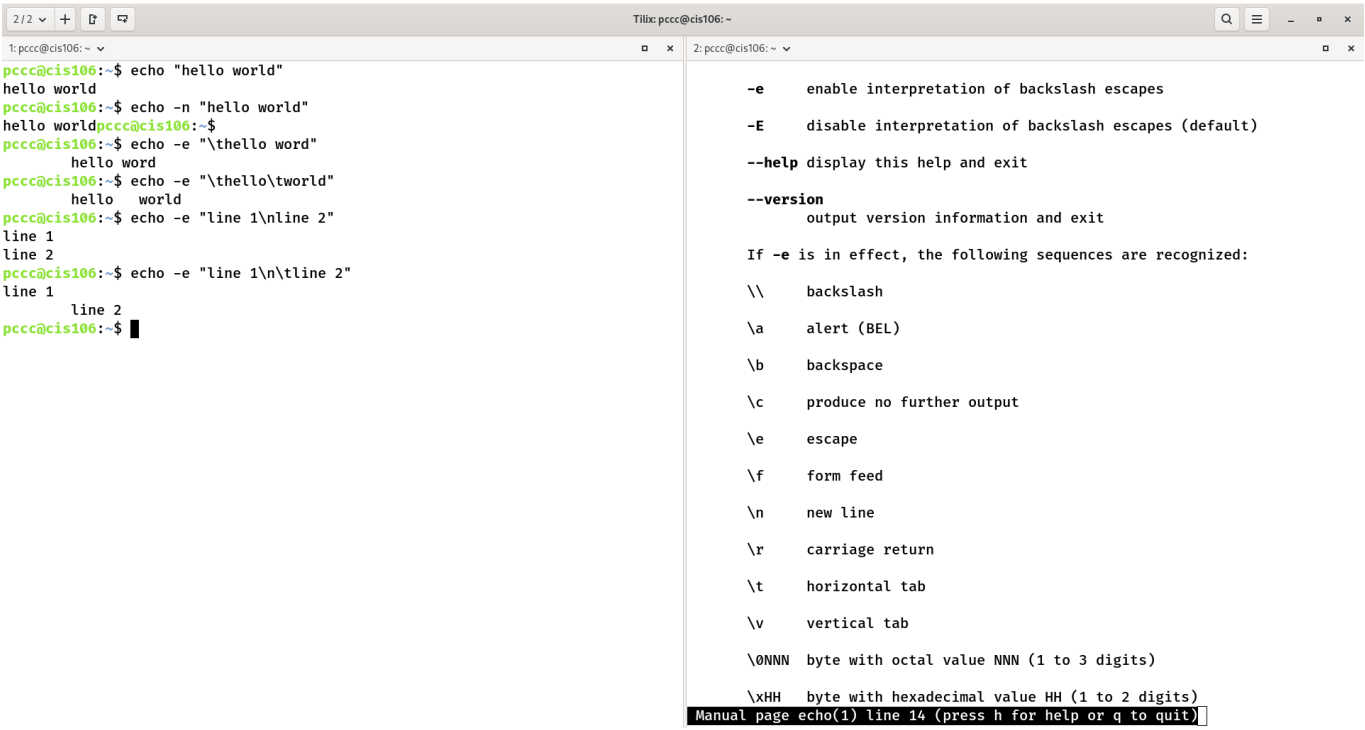
Question 1



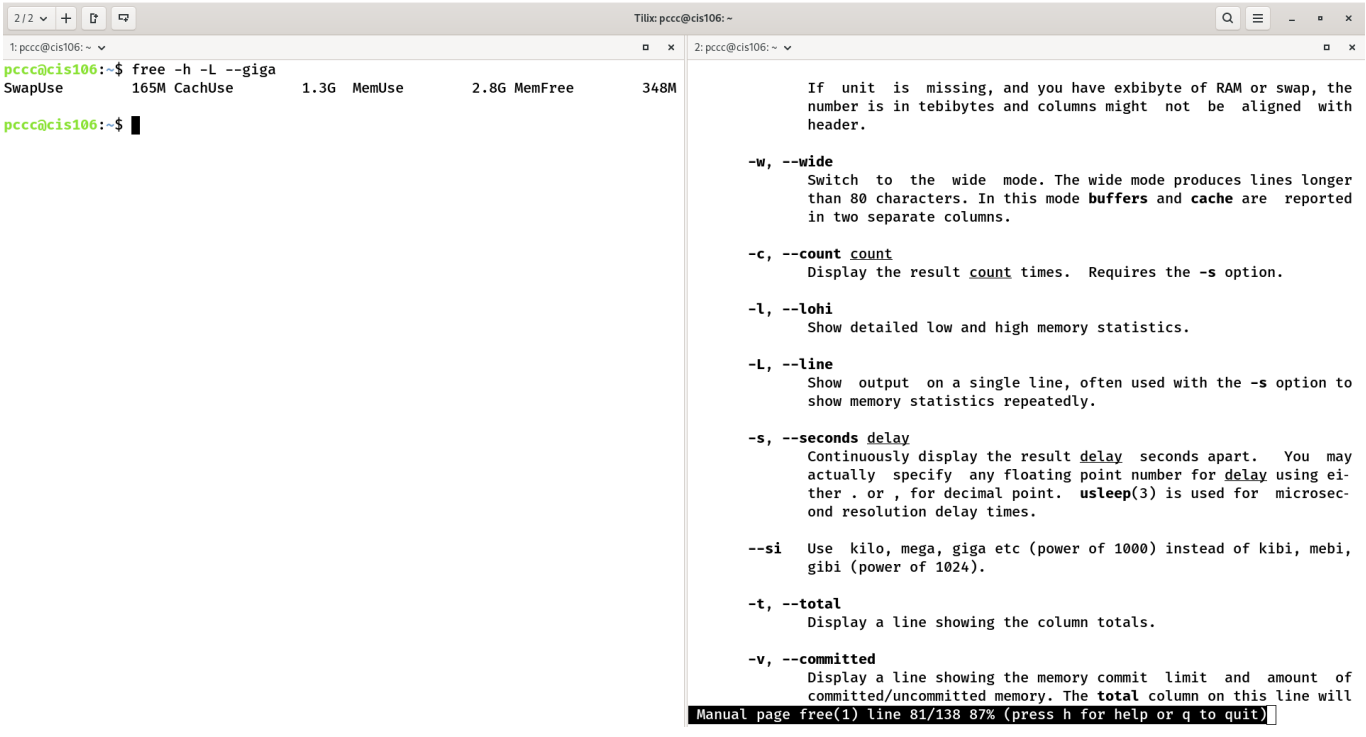
Question 2

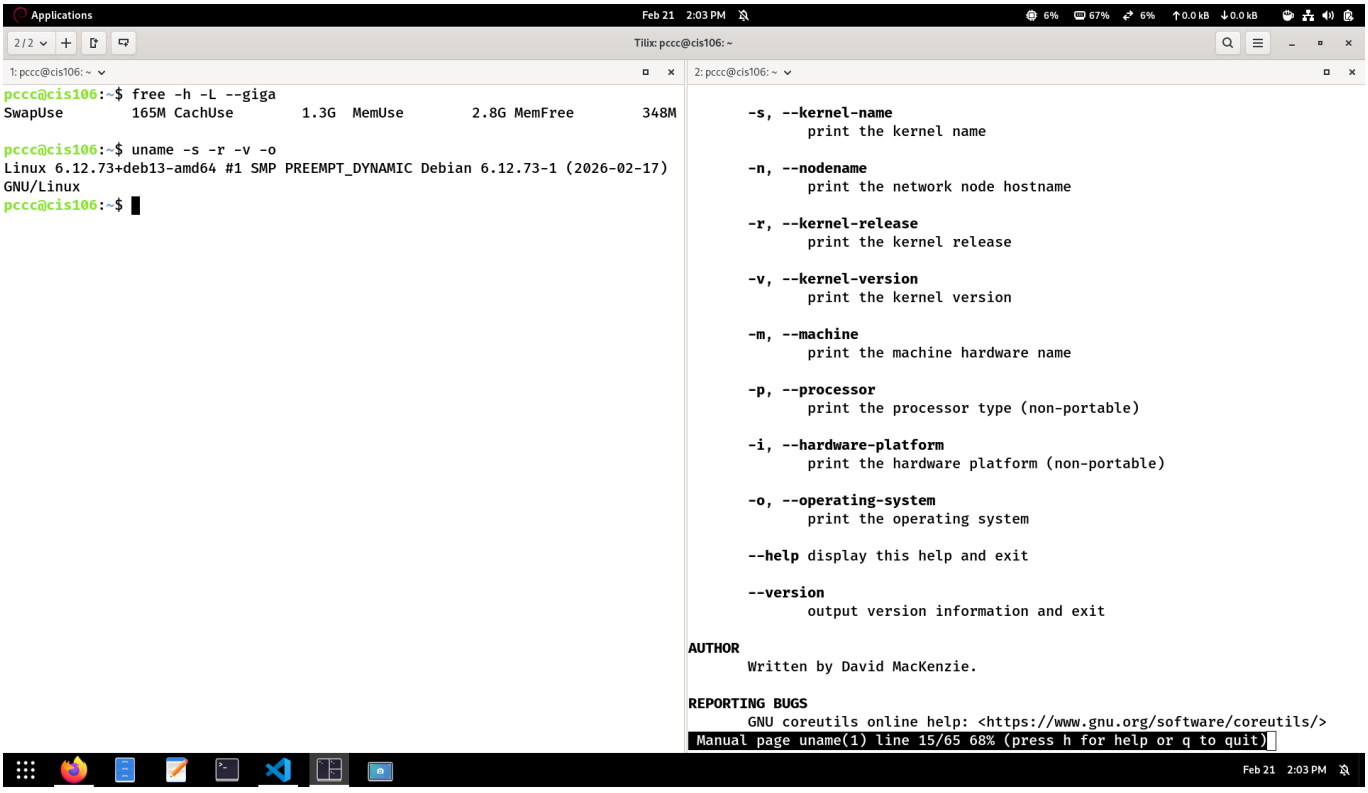


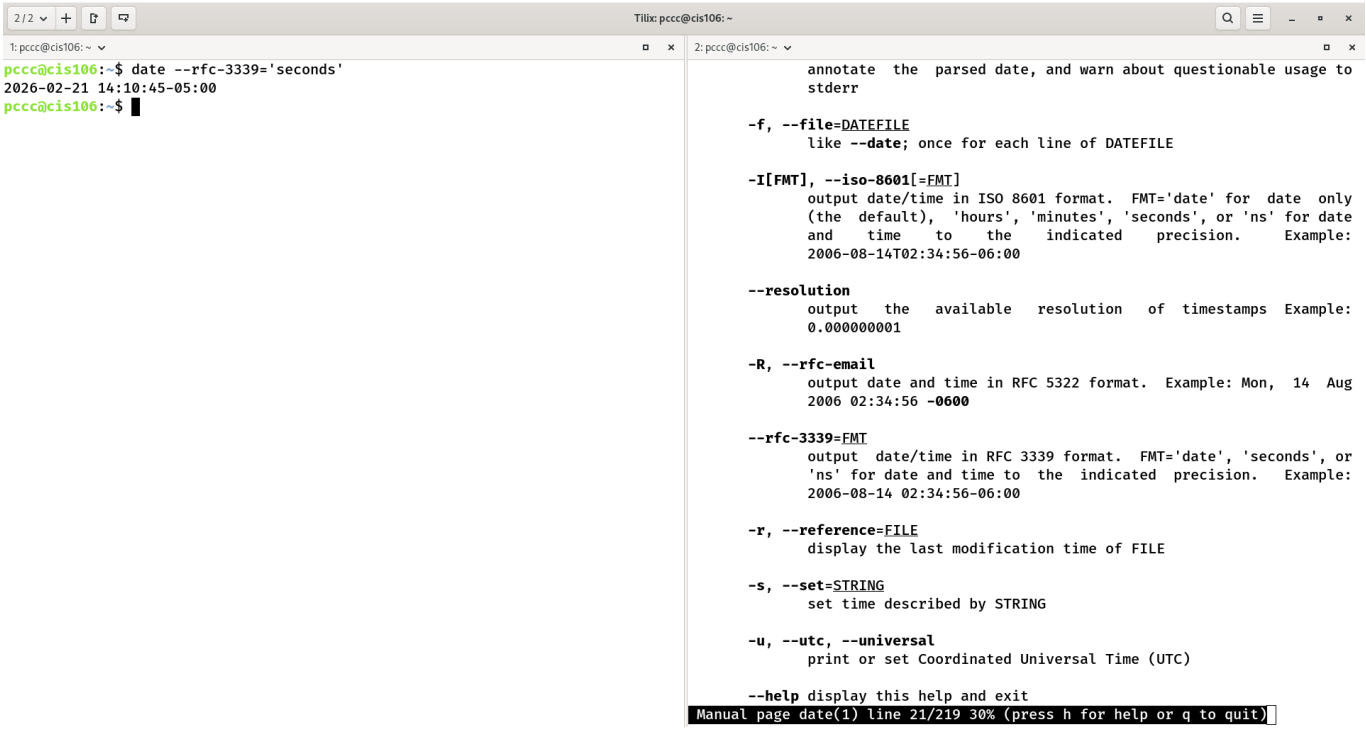
Question 3



Challenge Question


Tilix: pccc@cis106: ~
1: pccc@cis106: ~
2: pccc@cis106: ~
pccc@cis106:~$ free -h -L --giga
SwapUse 165M CachUse 1.3G MemUse 2.8G MemFree 348M
pccc@cis106:~$
If unit is missing, and you have exbibyte of RAM or swap, the number is in tebibytes and columns might not be aligned with header.
-w, --wide
Switch to the wide mode. The wide mode produces lines longer than 80 characters. In this mode buffers and cache are reported in two separate columns.
-c, --count count
Display the result count times. Requires the -s option.
-l, --lohi
Show detailed low and high memory statistics.
-L, --line
Show output on a single line, often used with the -s option to show memory statistics repeatedly.
-s, --seconds delay
Continuously display the result delay seconds apart. You may actually specify any floating point number for delay using either . or , for decimal point. usleep(3) is used for microsecond resolution delay times.
--si Use kilo, mega, giga etc (power of 1000) instead of kibi, mebi, gibi (power of 1024).
-t, --total
Display a line showing the column totals.
-v, --committed
Display a line showing the memory commit limit and amount of committed/uncommitted memory. The total column on this line will
Manual page free(1) line 81/138 87% (press h for help or q to quit)


Applications
Feb 21 2:03 PM
Tilix: pccc@cis106: ~
1: pccc@cis106: ~
2: pccc@cis106: ~
pccc@cis106:~$ free -h -L --giga
SwapUse 165M CachUse 1.3G MemUse 2.8G MemFree 348M
pccc@cis106:~$ uname -s -r -v -o
Linux 6.12.73+deb13-amd64 #1 SMP PREEMPT_DYNAMIC Debian 6.12.73-1 (2026-02-17) GNU/Linux
pccc@cis106:~$
-s, --kernel-name
print the kernel name
-n, --nodename
print the network node hostname
-r, --kernel-release
print the kernel release
-v, --kernel-version
print the kernel version
-m, --machine
print the machine hardware name
-p, --processor
print the processor type (non-portable)
-i, --hardware-platform
print the hardware platform (non-portable)
-o, --operating-system
print the operating system
--help display this help and exit
--version
output version information and exit
AUTHOR
Written by David MacKenzie.
REPORTING BUGS
GNU coreutils online help: <https://www.gnu.org/software/coreutils/>
Manual page uname(1) line 15/65 68% (press h for help or q to quit)
Feb 21 2:03 PM


2 / 2
Tilix: pccc@cis106: ~
1: pccc@cis106: ~
2: pccc@cis106: ~
pccc@cis106:~$ date --rfc-3339='seconds'
2026-02-21 14:10:45-05:00
pccc@cis106:~$
annotate the parsed date, and warn about questionable usage to stderr
-f, --file=DATEFILE
like --date; once for each line of DATEFILE
-I[FMT], --iso-8601[=FMT]
output date/time in ISO 8601 format. FMT='date' for date only (the default), 'hours', 'minutes', 'seconds', or 'ns' for date and time to the indicated precision. Example: 2006-08-14T02:34:56-06:00
--resolution
output the available resolution of timestamps Example: 0.000000001
-R, --rfc-email
output date and time in RFC 5322 format. Example: Mon, 14 Aug 2006 02:34:56 -0600
--rfc-3339=FMT
output date/time in RFC 3339 format. FMT='date', 'seconds', or 'ns' for date and time to the indicated precision. Example: 2006-08-14 02:34:56-06:00
-r, --reference=FILE
display the last modification time of FILE
-s, --set=STRING
set time described by STRING
-u, --utc, --universal
print or set Coordinated Universal Time (UTC)
--help display this help and exit
Manual page date(1) line 21/219 30% (press h for help or q to quit)