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Prof. Nielsen CIS220.470 February 20, 2018

DISCOVERY EXERCISES

Exercise 1.

[student@COS-047 /]\$ whatis ls ls (1) - list directory contents ls (1p) - list directory contents

Exercise 2.

[student@COS-047 /]\$ man date -R date -R, --rfc-2822 output date and time in RFC 2822 format. Example: Mon, 07 Aug 2006 12:34:56 -0600

Exercise 3.

[student@COS-047 /]\$ man clear clear(1) General Commands Manual clear(1)

NAME

clear - clear the terminal screen

SYNOPSIS

clear

DESCRIPTION

clear clears your screen if this is possible. It looks in the environment for the terminal type and then in the terminfo database to figure out how to clear the screen. Some terminals can clear also their scrollback buffer to prevent access to potentially sensitive data. If the terminfo entry for the terminal type contains extended capability E3, clear will use it to clear the scrollback buffer.

clear ignores any command-line parameters that may be present.

SEE ALSO

tput(1), terminfo(5)

This describes neurses version 5.9 (patch 20130511).

clear(1)

Exercise 4

[student@COS-047 /]\$ cal 2 1992 February 1992 Su Mo Tu We Th Fr Sa

1

2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29

Exercise 5 (NOTE: Although this technically works, is there a shorter way to accomplish the same task?)

[student@COS-047/]\$ cal 2 2006; cal 2 2007; cal 2 2008; cal 2 2009; cal 2 2010; cal 2 2011; cal 2 2012; cal 2 2013; cal 2 2014; cal 2 2015;

February 2006

Su Mo Tu We Th Fr Sa

1 2 3 4

5 6 7 8 9 10 11

12 13 14 15 16 17 18

19 20 21 22 23 24 25

26 27 28

February 2007

Su Mo Tu We Th Fr Sa

1 2 3

4 5 6 7 8 9 10

11 12 13 14 15 16 17

18 19 20 21 22 23 24

25 26 27 28

February 2008

Su Mo Tu We Th Fr Sa

1 2

3 4 5 6 7 8 9

10 11 12 13 14 15 16

17 18 19 20 21 22 23

24 25 26 27 28 29

February 2009

Su Mo Tu We Th Fr Sa

1 2 3 4 5 6 7

8 9 10 11 12 13 14

15 16 17 18 19 20 21

22 23 24 25 26 27 28

February 2010 Su Mo Tu We Th Fr Sa

1 2 3 4 5 6 7 8 9 10 11 12 13

14 15 16 17 18 19 20

21 22 23 24 25 26 27

28

February 2011

Su Mo Tu We Th Fr Sa

1 2 3 4 5

6 7 8 9 10 11 12

13 14 15 16 17 18 19

20 21 22 23 24 25 26

27 28

February 2012 Su Mo Tu We Th Fr Sa 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29

February 2013 Su Mo Tu We Th Fr Sa 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28

February 2014 Su Mo Tu We Th Fr Sa 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28

February 2015 Su Mo Tu We Th Fr Sa 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28

Exercise 6

[student@COS-047 /]\$ clear [student@COS-047 /]\$ man date date [-u|--utc|--universal] [MMDDhhmm[[CC]YY][.ss]]

Exercise 7

[student@COS-047 /]\$ date --utc Tue Feb 20 23:05:24 UTC 2018

Exercise 8 (NOTE: Permission Denied)

[student@COS-047/]\$ cal 2 2018 > thismonth

bash: thismonth: Permission denied

Exercise 9 (NOTE: Permission Denied, thismonth file was not actually created)

[student@COS-047 /]\$ cat thismonth February 2018 Su Mo Tu We Th Fr Sa 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 **20** 21 22 23 24

25 26 27 28

Exercise 10 (NOTE: Permission Denied)

[student@COS-047 /]\$ who > CurrentUser bash: CurrentUser: Permission denied [student@COS-047 /]\$ cat CurrentUser student :0 2018-02-20 13:32 (:0) student pts/0 2018-02-20 13:32 (:0)

Exercise 11 (**NOTE:** Permissions were already denied to create the files.)

[student@COS-047/]\$ cat thismonth; cat CurrentUser;

cat: thismonth: No such file or directory cat: CurrentUser: No such file or directory

Exercise 12 (NOTE: Cascading permissions problems)

[student@COS-047/]\$ less thismonth; less CurrentUser;

thismonth: No such file or directory CurrentUser: No such file or directory

[student@COS-047/]\$ more thismonth; more CurrentUser;

thismonth: No such file or directory CurrentUser: No such file or directory

Exercise 13.

[student@COS-047 /]\$ who > who_info bash: who_info: Permission denied [student@COS-047 /]\$ less who_info who_info: No such file or directory

[student@COS-047/]\$ tail -n 12 who_info

tail: cannot open 'who info' for reading: No such file or directory

Exercise 14. (NOTE: Permission denied on favorite_foods file creation)

[student@COS-047 /]\$ cat > favorite foods

pizza

ice cream

chips

bacon grease

peanut butter

[student@COS-047/]\$ cat >> favorite_foods

McDonalds

```
any junk food [student@COS-047/]$ cat favorite_foods
```

Exercise 15.

They both show who is logged on, w also shows what they are currently doing.

Exercise 16.

[student@COS-047/]\$ who -uH; w; NAME LINE **TIME** IDLE PID COMMENT student:0 2018-02-20 13:32 ? 16391 (:0) student pts/1 2018-02-20 16:34 . 17446 (:0) 16:50:50 up 28 days, 42 min, 2 users, load average: 0.05, 0.10, 0.10 **FROM** LOGIN@ IDLE JCPU PCPU WHAT USER TTY 13:32 ?xdm? 8:47m 0.30s gdm-session-wor student :0 :0 16:34 2.00s 0.08s 22.42s /usr/libexec/gn student pts/1 :0

Exercise 17.

[student@COS-047 /]\$ who -b; system boot 2018-01-23 16:08

Exercise 18.

[student@COS-047/]\$ who -b; [student@COS-047/]\$ who -uH; w;

Exercise 19.

January February March
Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa

1 2 3 1 2 3 4 5 6 7 1 2 3 4 5 6 7

4 5 6 7 8 9 10 8 9 10 11 12 13 14 8 9 10 11 12 13 14

11 12 13 14 15 16 17 15 16 17 18 19 20 21 15 16 17 18 19 20 21

18 19 20 21 22 23 24 22 23 24 25 26 27 28 22 23 24 25 26 27 28

25 26 27 28 29 30 31

A 31

April May June Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa 1 2 3 4 1 2 1 2 3 4 5 6 3 4 5 6 7 8 9 7 8 9 10 11 12 13 5 6 7 8 9 10 11 12 13 14 15 16 17 18 10 11 12 13 14 15 16 14 15 16 17 18 19 20 24 25 26 27 28 29 30 28 29 30 26 27 28 29 30 31 July August September Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa 1 2 3 4 1 2 3 4 5 1

 25 26 27 28 29 30 31
 29 30
 27 28 29 30 31

5 6 7 8 9 10 11 2 3 4 5 6 7 8 6 7 8 9 10 11 12

12 13 14 15 16 17 18 9 10 11 12 13 14 15 13 14 15 16 17 18 19

18 19 20 21 22 23 24 22 23 24 25 26 27 28 20 21 22 23 24 25 26

[student@COS-047/]\$

Exercise 20.

[student@COS-047/]\$ who -u; date -u;

student :0 2018-02-20 13:32 ? 16391 (:0) student pts/1 2018-02-20 16:34 . 17446 (:0)

Wed Feb 21 01:44:23 UTC 2018