

Chengeng Xiao
Student ID: 913186040
ECS30
Assignment 2 Linux
Professor Bishop

1: (15 points) Suppose I have a file named x in my home directory. File y is a (hard) link to this file, and file z is a symbolic link to it. I now type:

1, cat x : No such file or directory. Because x is no longer in the location

2, cat y : print the information in x . Because y is a hard link of x , can read x even the location is changed

3, cat z : No such file or directory. Because z is a symbolic link that links to the location that no longer saves x 's information. No such file or directory

```
[[adamsx97@pc18 ~]$ cat x
asdf

[[adamsx97@pc18 ~]$ ln x y
[[adamsx97@pc18 ~]$ ln -s x z
[[adamsx97@pc18 ~]$ mkdir a
mkdir: cannot create directory 'a': File exists
[[adamsx97@pc18 ~]$ mv x a
[[adamsx97@pc18 ~]$ cat x
cat: x: No such file or directory
[[adamsx97@pc18 ~]$ cat y
asdf

[[adamsx97@pc18 ~]$ cat z
cat: z: No such file or directory
[[adamsx97@pc18 ~]$
```

2, (5 points) Give a one-line Linux command that replaces every blank space with the letter 'X' in a file.

tr " " "X" < filename

```
[[adamsx97@pc18 ~]$ vi x
[[adamsx97@pc18 ~]$ cat x
sdfe adsfci xcaf adsf
[[adamsx97@pc18 ~]$ tr " " "x" < x
sdfexadsfcixxcafxadsf
[[adamsx97@pc18 ~]$ █
```

3, (5 points) Give a Linux command that prints the calendar for the month of September in 1752. What is unusual about that month?

The command is : `cal 9 1752`

There are some dates missing in the calendar.

```
[[adamsx97@pc18 ~]$ cal 9 1752
  September 1752
Su Mo Tu We Th Fr Sa
      1  2 14 15 16
17 18 19 20 21 22 23
24 25 26 27 28 29 30
```