

Question 1

```
[cis106@cis106-standardpci440fxpiix1996 question1]$ ls -lGgh
total 188K
-rw-r--r-- 1 512 May 17 18:11 about.html
-rw-r--r-- 1 21K May 17 18:11 accounts.ods
-rw-r--r-- 1 551 May 17 18:11 basicInfo.txt
-rw-r--r-- 1 512 May 17 18:11 contact.html
-rw-r--r-- 1 41 May 17 18:11 hello.py
-rw-r--r-- 1 36 May 17 18:11 hello.rb
-rw-r--r-- 1 32 May 17 18:11 hello.sh
-rw-r--r-- 1 512 May 17 18:11 index.html
-rw-r--r-- 1 10K May 17 18:11 linux.docx
-rw-r--r-- 1 16K May 17 18:11 linux.pdf
-rw-r--r-- 1 609 May 17 18:11 linux.txt
-rw-r--r-- 1 11K May 17 18:11 macos.docx
-rw-r--r-- 1 4.0K May 17 18:11 MacOS_logo.svg
-rw-r--r-- 1 19K May 17 18:11 macos.pdf
-rw-r--r-- 1 978 May 17 18:11 macos.txt
-rw-r--r-- 1 699 May 17 18:11 Ubuntu-logo.svg
-rw-r--r-- 1 20K May 17 18:11 users-data.ods
-rw-r--r-- 1 10K May 17 18:11 windows.docx
-rw-r--r-- 1 486 May 17 18:11 Windows_logo.svg
-rw-r--r-- 1 17K May 17 18:11 windows.pdf
-rw-r--r-- 1 866 May 17 18:11 windows.txt
[cis106@cis106-standardpci440fxpiix1996 question1]$
```

Question 2

Question 3

```

cis106@cis106-standardpci440fxpiix1996:~/midtermfiles3/question1/fall21
0 directories, 0 files
[cis106@cis106-standardpci440fxpiix1996 fall21]$ tree fall21
fall21 [error opening dir]

0 directories, 0 files
[cis106@cis106-standardpci440fxpiix1996 fall21]$ tree
.
├── cis107
│   ├── books
│   ├── hmw
│   ├── material
│   └── notes
├── cis125
│   ├── books
│   ├── hmw
│   ├── material
│   └── notes
├── en101
│   ├── books
│   ├── hmw
│   ├── material
│   └── notes
├── ma108
│   ├── books
│   ├── hmw
│   ├── material
│   └── notes
└── notes
    ├── books
    ├── hmw
    ├── material
    └── notes

25 directories, 0 files
[cis106@cis106-standardpci440fxpiix1996 fall21]$

```

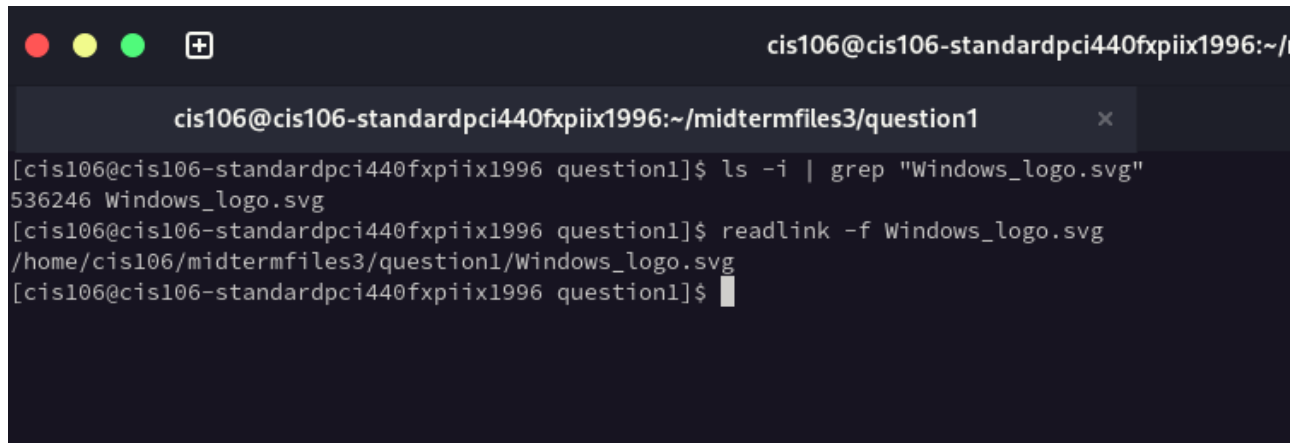
```

cis106@cis106-standardpci440fxpiix1996:~/midtermfiles3/question1/fall21
cis106@cis106-standardpci440fxpiix1996:~/midtermfiles3/question1/fall21
[cis106@cis106-standardpci440fxpiix1996 question1]$ mkdir -p fall21/{cis107,notes,cis125,en101,ma108,notes}/{hmw,material,books,notes}
[cis106@cis106-standardpci440fxpiix1996 question1]$ ls
about.html          hello.py           linux.txt         Ubuntu-logo.svg
accounts.ods        hello.rb          macos.docx       users-data.ods
All-Files-Organized(hello.sh)  MacOS_logo.svg   windows.docx
basicInfo.txt       index.html        macos.pdf        windows.pdf
contact.html        linux.docx        macos.txt        windows.txt
fall21              linux.pdf         output.txt
[cis106@cis106-standardpci440fxpiix1996 question1]$ cd fall21
[cis106@cis106-standardpci440fxpiix1996 fall21]$

```

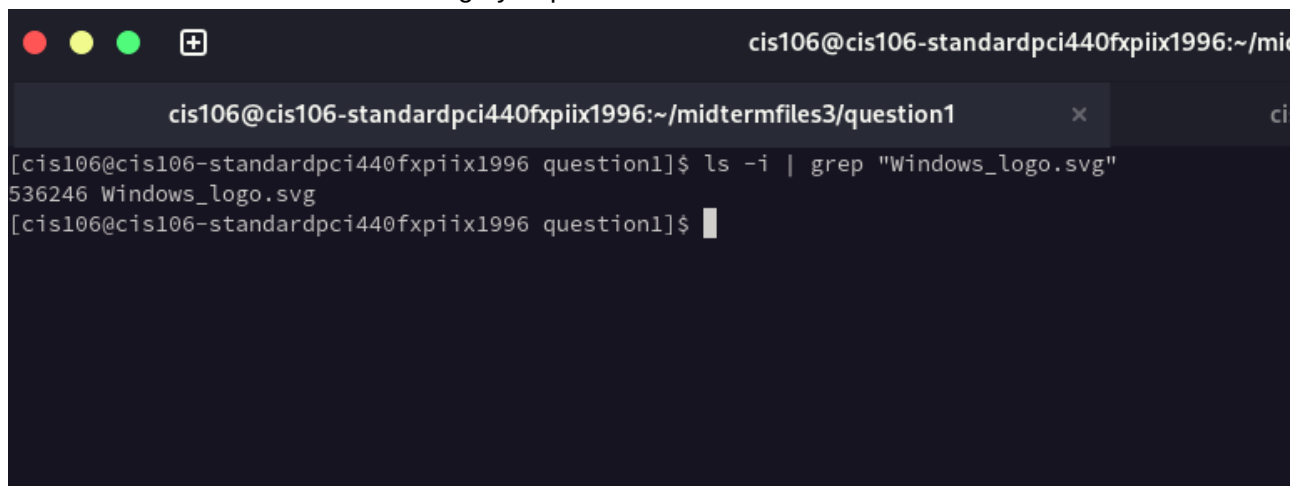
Question 4

1. What is the Absolute path of the image you picked?



```
cis106@cis106-standardpci440fxpiix1996:~/midtermfiles3/question1
[cis106@cis106-standardpci440fxpiix1996 question1]$ ls -i | grep "Windows_logo.svg"
536246 Windows_logo.svg
[cis106@cis106-standardpci440fxpiix1996 question1]$ readlink -f Windows_logo.svg
/home/cis106/midtermfiles3/question1/Windows_logo.svg
[cis106@cis106-standardpci440fxpiix1996 question1]$
```

2. What is the inode number of the image you picked?



```
cis106@cis106-standardpci440fxpiix1996:~/midtermfiles3/question1
[cis106@cis106-standardpci440fxpiix1996 question1]$ ls -i | grep "Windows_logo.svg"
536246 Windows_logo.svg
[cis106@cis106-standardpci440fxpiix1996 question1]$
```

3. Which command would you use to move the file from its current location to the /usr/share/backgrounds directory and rename it at the same time? Make sure to include the whole command. This must be done in a single command.

```

/home/cis106/midtermfiles3/question1/Windows_logo.svg
[cis106@cis106-standardpci440fxpiix1996 question1]$ mv /home/cis106/midtermfiles3/question1/Windows_logo.svg /usr/share/backgrounds
mv: cannot create regular file '/usr/share/backgrounds': Permission denied
[cis106@cis106-standardpci440fxpiix1996 question1]$ sudo su
[sudo] password for cis106:

root in midtermfiles3/question1 on  main via  v3.10.4 via  
 mv /home/cis106/midtermfiles3/question1/Windows_logo.svg /usr/share/backgrounds


root in midtermfiles3/question1 on  main via  v3.10.4 via  
 ls /usr/share/backgrounds
/usr/share/backgrounds

root in midtermfiles3/question1 on  main via  v3.10.4 via  
 cd /usr/share/backgrounds
bash: cd: /usr/share/backgrounds: Not a directory

root in midtermfiles3/question1 on  main via  v3.10.4 via  
 cd /usr/share/

root in /usr/share
 ls
accountsservice      dict                  gettext              gtksourceview-4      libphoto2_port       nmap                  systemtap
aclocal               distro-info           gettext-0.21          gtksourceview-5      libgweather           ntp                   tllib
aclocal-1.16          djvu                  ghostscript           guile                 libgweather-4         openal                tabset
alsa                  dnsmasq               gir-1.0               gupnp-dlna-2.0       libinput              opencv4               tc
alsa-card-profile     doc                   git                   gvfs                  liblangtag             openvpn               templates
appdata               drirc.d               git-core              help                  liblouis               orca                  terminfo
applications           dwarves               git-gui                hwdata                libnumbertext          osinfo                texinfo
audit                 efitools              gitk                   hwinfo                libreoffice            os-prober             themes
autoconf              emacs                 gitweb                hwloc                 libthai                ostree                thumbnailed
automake-1.16          enchant               gjs-1.0               i18n                  libtool                pll-kit               totem
avahi                  endeavouros           glade                  iana-etc              libwacom               pacman                tracker3

```

4. What command would you use to know the size of every image in the ~/midtermfiles3/question1 directory, including their permissions, and the full date of the last time it was modified? q4
5. Which command would you use to get this output of the ~/midtermfiles3/question1 directory. Include the whole command that will give you this output.