

COMS 252 HOMEWORK

ADVANCED FILTERS

1. The Linux spell checking utility, `ispell`, stores its dictionary in the text file `/usr/share/dict/words` with one word per line. Write a command to scan this file for words containing both “ps” and “xy”. Sample output:

```
neo$ # Magic command here
oxyblepsia
pseudoapoplexy
pseudodoxy
xylocarps
neo$
```

2. Write a command to list the files in `/usr/bin` whose names contain (at least) 3 vowels in a row. Sample output:

```
neo$ # Magic command here
dvd+rw-mediainfo
gmime-uuencode
iceauth
libieee1284-test
uuidgen
vboxtoau
neo$
```

3. Write a command to scan `/etc/passwd` and display the real name (GECOS field) for each user. Sample output:

```
neo$ # Magic command here
:
User nobody is Nobody
User rpm is
User vcsa is virtual console memory owner
:
```

4. Write a command to display the 5 largest files in subdirectory `/bin`, with size info, owner, and filename only. File owners should be in parentheses. Sample output:

```
neo$ # Magic command here
616312 (root) bash
522116 (root) ash.static
474608 (root) vi
453836 (root) zsh
307488 (root) tcsh
neo$
```