

## CS 2413 Test 1

1. [10] Write a sed command which will delete all **blank** lines in the file `in.data` and write the results into the file `out.data`. The command should be entirely on the command line.
2. [15] Write a sed script which will
  - (a) In all lines starting with `"*XCOMM"` replace the string `"*XCOMM"` with `'/*'` characters and end the line with `*/`.
  - (b) In the lines which started with `"*XCOMM"` replace `"X11R6"` with `"XFree86"`.
  - (c) Do not replace X11R6 in any other lines.
3. [15] An ISP (Internet Service Provider) has a data file which contains information about user's connect times and bandwidth usage as well as storage usage. There are two types of lines in the file, a connect line which has 5 fields containing the login, start and stop times as well as the bandwidth usage broken into the number of bytes in versus the number of bytes out.

```
<user name> <start time> <stop time> <bytes in> <bytes out>
maynard      1378      2463      12379894      34563
```

and a storage usage line which contains the number of bytes of disk space currently being used by the user which has the following format:

```
*storage* <user name> <bytes of storage>
*storage*   maynard      2784643
```

Write an awk script to find the total amount of connect time used by the user `maynard`, the total amount of bandwidth consumed (both in and out) as well as the maximum amount of storage used during this period. The output should look like:

```
maynard
Connect Time = 1085
      Bandwidth   = 12314457
      Storage     = 2784643
```

4. [15] Write a perl script which will print out the pathnames of all text files which are under any of the directories in the file whose name is given on the command line.