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Linux Exercise 1

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Date: 25-Apr-2013 14:57
URL: https://nebula.addteq.com/display/cm/Linux+Exercise+1

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1.

a. Use the df command to display the amount of used and available space on your hard drive.

```
df | awk '{print $2 " " $3}'
```

b. Check the man page for df, and use it to ?nd an option to the command which will display the free space in a more human-friendly form. Try both the single-letter and long-style options.

```
df -h
df --human-readable
```

2.

a. Use the find command to list all the ?les and directories under your home directory. Try the -type d and -type f criteria to show just ?les and just directories.

```
find ~/
find ~/ -type f
find ~/ -type d
```

b. Use locate to find files whose name contains the string 'bashbug'. Try the same search with find, looking over all files on the system. You'll need to use the * wildcard at the end of the pattern to match files with extensions.

```
find ~/ -type f -exec grep "bashbug" {} \;
locate bashrc | xargs grep -i "bashbug"
```

c. Find out what the find option -iname does.

```
Like -name, but the match is case insensitive
```

3.

a. Use the hostname command, with no options, to print the hostname of the machine you are using.

```
hostname
```

b. Use man to display some documentation on the hostname command. Find out how to make it print the IP address of the machine instead of the hostname. You will need to scroll down the manpage to the 'Options' section.

```
hostname -i
```

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c. Use the locate command to ?nd ?les whose name contains the text 'hostname'. Which of the ?lenames printed contain the actual hostname program itself? Try running it by entering the program's absolute path to check that you really have found it.

```
locate "*hostname*"
file /bin/hostname
```

4.

a. The * wildcard on its own is expanded by the shell to a list of all the ?les in the current directory. Use the echo command to see the result (but make sure you are in a directory with a few ?les or directories ?rst)

```
echo *
```

b. Use quoting to make echo print out an actual * symbol.

```
echo "*"
or
echo \*
```

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