

COSC519

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Home work # 1

60 points

Using the Linux/Unix OS, or CYGWIN perform the following tasks and write a small report on your work and observations and submit it as a single pdf file in the Blackboard. I should be able to see your commands and also their output.

1. Learn about 50 distinct commands of Linux/Unix OS by actually running them on the machine in the lab and capture each output and print it. Each command must be a distinct one, not with different options.
2. Learn two commands (objdump and nm) in Linux and try all options in these commands and capture the output. Why do we need these commands?
3. Use a **find** command to capture all *.c files; Use a **find** command to capture all *.cpp files. Capture the output and send it to a file. You must find the files recursively in a directory structure with “c” and “cpp” files. Create some dummy directories (nested) and files to demonstrate this command.
4. What is a shell program in Linux/Unix? Write a small shell program or get any one from the Web and run it and show the results. Include your shell program and results with the homework (a reasonable size program not a trivial one).

Note: When an output for a command is large, trim most of the output and show only small sample to illustrate the work. Also, in your pdf file, show clearly which problem getting the output with nice labels.