

CS2204. Homework problem set I.

Write your answers below each problem. Be prepared to email the generated files, script, codes etc. to your GTA immediately upon request.

Problem I (1 point)

Give a UNIX command to create a file named "-u". Note that `touch -u` and the like won't work because UNIX treats anything that starts with an "-" as an option, as in *e.g.* `ls -l`.

Problem II (4 points)

Create a directory called `Smith`. Inside it, create files `Mike.dad`, `Carol.mom`, `Alice.maid`, `Sam.butcher`, `Greg`, `Peter`, `Robert`, `Marcia`, `Jennifer`, `Cindy`. Now `cd Smith`, and use `ls` with wild-cards to list:

1. only children
2. only the male children
3. only the female children
4. only the four people with roles given (*e.g.* "Alice.maid").

Problem III (2 points)

Learn what UNIX command `who` does. Now use UNIX pipes `|` and redirections `>` or `<` to output only the first line of the output of `who` to a file `who is out there`.

Problem IV (1 point)

Learn what `cal` does. Why does `cal 9 1752` give a "strange" output?

Problem V (2 point)

Use UNIX command `du` to output the sizes (in "human" formats like `Kb`) of all files/directories in your home directory, up to one level down along the tree. For instance, on my machine one line of such output looks like: `1.4M /home/onufriev/STRUCTURES`. Save the output in file `yourlastname.dirstruct`. Use `vim` to annotate this file by adding to its header a few line description of what you did.