

CSE2430 - Operating Systems

Homework Introduction (1)

Assigned on: **Feb 13 2023**

Question 1

Explain the difference between multiprogramming and timesharing when

- a) only a single process is running
- b) two processes are running
- c) more than two processes are running.

Question 2

The kernel abstraction aims at separating privileged operating system code from unprivileged user code. Name three operations that are critical enough so that you would implement them in the kernel and argue why they should be privileged.

Question 3

Educate yourself about the `strace` command (Internet, manpage) and use it to determine how many `open` system calls the execution of the

```
touch .
```

command produces. Explain your findings.