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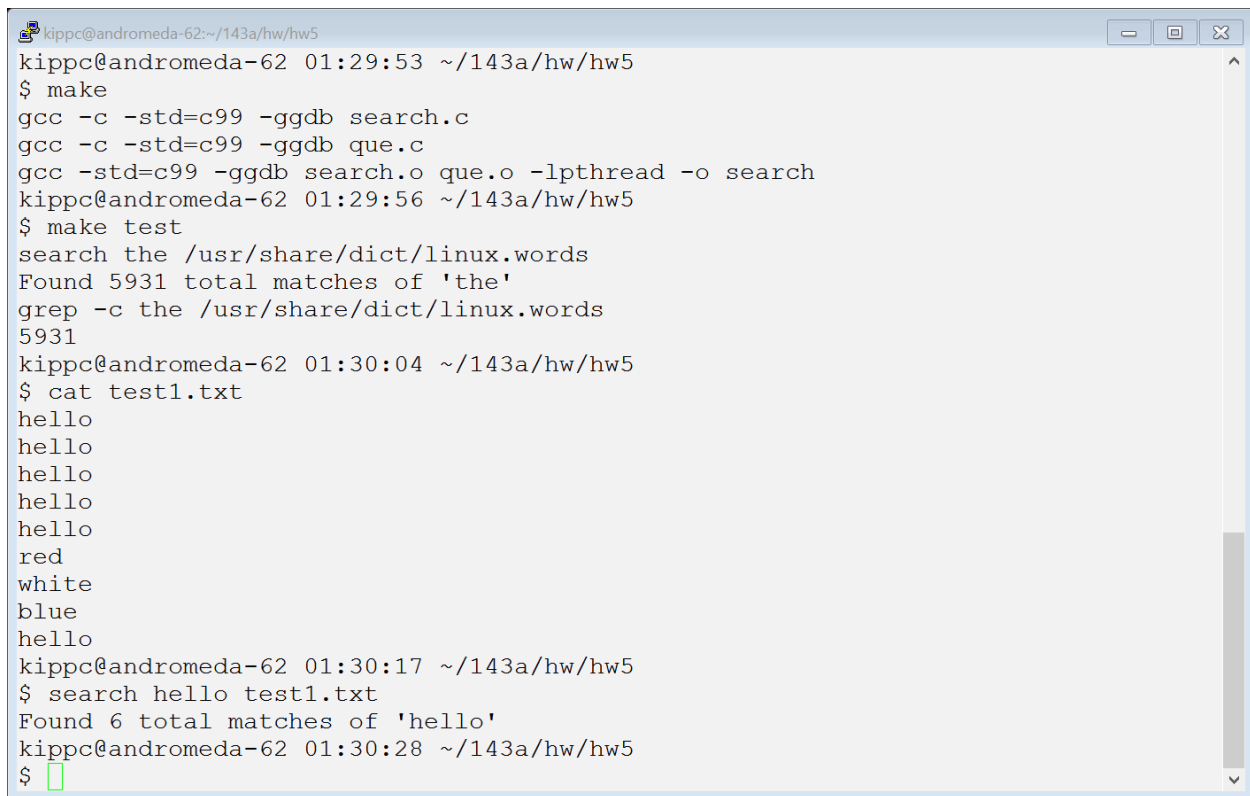
CS 143A

Homework 5

Part 1

Shortest Job First (SJF) (Non-preemptive), Shortest Remaining Time First (SRTF) (Preemptive), and Priority are all scheduling algorithms that could lead to starvation. Starvation is most likely to occur in SJF and SRTF when jobs are long, and Priority may starve low priority jobs that end up waiting indefinitely.

Part 2

A terminal window titled 'kippc@andromeda-62:~/143a/hw/hw5' with standard window controls. The terminal shows the following commands and output:

```
kippc@andromeda-62 01:29:53 ~/143a/hw/hw5
$ make
gcc -c -std=c99 -ggdb search.c
gcc -c -std=c99 -ggdb que.c
gcc -std=c99 -ggdb search.o que.o -lpthread -o search
kippc@andromeda-62 01:29:56 ~/143a/hw/hw5
$ make test
search the /usr/share/dict/linux.words
Found 5931 total matches of 'the'
grep -c the /usr/share/dict/linux.words
5931
kippc@andromeda-62 01:30:04 ~/143a/hw/hw5
$ cat test1.txt
hello
hello
hello
hello
hello
red
white
blue
hello
kippc@andromeda-62 01:30:17 ~/143a/hw/hw5
$ search hello test1.txt
Found 6 total matches of 'hello'
kippc@andromeda-62 01:30:28 ~/143a/hw/hw5
$
```

Part 3

83.75,17.5

118.75,2.5

87.5,43.75