**UNX511/DPS912: Unix Systems Programming**

Quiz 7

1. Circle the pipe in the following command issued at the command line: [1 mark]

**$ ls | wc -l**

1. Which index of a pipe (p[0] or p[1]) is the “read” end and which index (p[0] or p[1]) is the “write” end? [1 mark]

**int p[2];**

**pipe(p);**

1. Answer the three questions (3a, 3b, 3c) in the code below in comments:

int pfd1[2];

pid\_t pid1, pid2;

pipe(pfd1);

pid1 = fork();

if (pid1 == 0) {

dup2(pfd1[1], STDOUT\_FILENO);**//3a. What does this do? [2 marks]**

execlp ("du", "du", "-a", (char \*) NULL);

}

pid2 = fork();

if (pid2 == 0) {

dup2 (pfd1[0], STDIN\_FILENO)**//3b. What does this do? [2 marks]**

execlp ("grep", "grep", "Week", (char \*) NULL);

}

**//3c. What do you expect to see on the screen after this has been**

**// executed? [2 marks]**

1. What is a fifo based on? [1 mark]
   1. A file.
   2. An IP address.
   3. A key.
2. What is the order of data flow in a fifo? [1 mark]
   1. First in first out.
   2. First in last out.
   3. Last in first out.
   4. Last in last out.