Advanced Unix programming – Quiz4

Time limit: 12 minutes

1. (1 point) Which of the following statements is true?

   (a) TCP is more reliable than UDP, and UDP is connection-oriented.
   (b) UDP is more reliable than TCP, and UDP is connection-oriented.
   (c) TCP is more reliable than UDP, and TCP is connection-oriented.
   (d) UDP is more reliable than TCP, and TCP is connection-oriented.

   C

2. (4 points) Complete the code fragment given below, so that the *sockaddr_in* structure has the correct IP address (from the variable *IPAddress*) and port number (from the variable *Port*).

```
char IPAddress[]=‘‘128.186.120.33’’;
char Port[] = ‘‘50002’’;
struct sockaddr_in addr;
memset(&addr, 0, sizeof(struct sockaddr_in));
addr.sin_family = AF_INET;

addr.sin_port = htons(atoi(Port));
inet_pton(AF_INET, IPAddress, &addr.sin_addr);
```

3. (5 point) What is the *typical* sequence of calls to the following functions on the client and server, respectively, as discussed in class: (i) connect, (ii) socket, (iii) bind, (iv) close, (v) reads/writes, (vi) accept, (vii) listen.

```
Server                              Client
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socket                              socket
bind                                connect
listen                                reads/writes
accept                              close
  reads/writes
close
```