1. In TCP sliding window, if lastByteAck = a, lastByteSent = b, lastByteWrite = c, lastByteRead = d, NextByteExpected = e, lastByteRcvd = f, MaxRcvBuffer = g.

AdvertisedWindow = ?

1. Read the following Python program below. What kind of socket (UDP/TCP)? What does the socket system call return? What does the bind system call return? Who calls bind (client/server)?

from socket import socket, AF\_INET, SOCK\_DGRAM

s = socket(AF\_INET, SOCK\_DGRAM)

s.bind(('127.0.0.1', 0))

print "using", s.getsocketname()

server = ('127.0.0.1', 11111)

s.sendto("MixedCaseString", server)

data, addr = s.recvfrom(1024)

print "received", data, "from", addr

s.close()

1. Introduce resolution process of ‘www.nominum.com.’
2. pros & conns of switching vs. routing