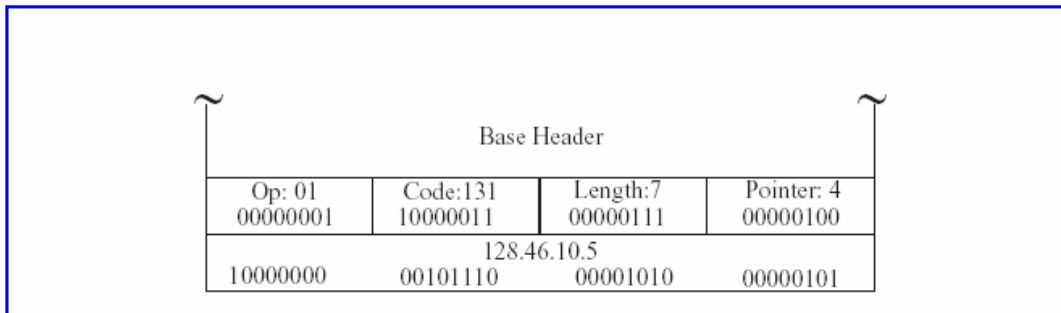


Homework 3, Chapter 8: IP

29. In this case, we use a Loose Source Route option with only one entry. See Figure 8.1.

Figure 8.1 Exercise 29



38. Since the fragmentation offset field shows the offset from the beginning of the original datagram in multiples of 8 bytes, an offset of 100 indicates that there were 800 bytes of data sent before the data in this fragment.
39. There are no options. The packet is not fragmented. The packet carries 64 bytes of data and a 20 byte header. The checksum is not used. The packet may visit up to 32 more routers. The identification number of the packet is 3 (decimal). The type of service is normal.