CHAPTER 18

Remote Login: TELNET

Exercises

1. The pattern is:

<p align="center">11110011 00111100 11111111 <strong style="color:red">11111111</p>

   Note: The last byte is duplicated because it is the same as IAC; it must be repeated to be interpreted as data.

3. To do the task in Exercise 1, we need to send:

   > Client to Server: IAC DO BINARY (3 bytes)
   > Server to Client: IAC WILL BINARY (3 bytes)
   > Client to Server: 11110011 00111100 11111111 **11111111** (4 bytes)

   If each transmission is encapsulated in a single TCP segment with 20 bytes of header, there will be 3 segments of 23, 23, and 24 bytes for the total of 70 bytes or 560 bits.

5. If we assume the useful bits are the 3 bytes of data from Exercise 1:
   3 bytes of data / 216 bytes transmitted = 1 : 70

7. See Figure 18.1.

Figure 18.1   *Exercise 7*
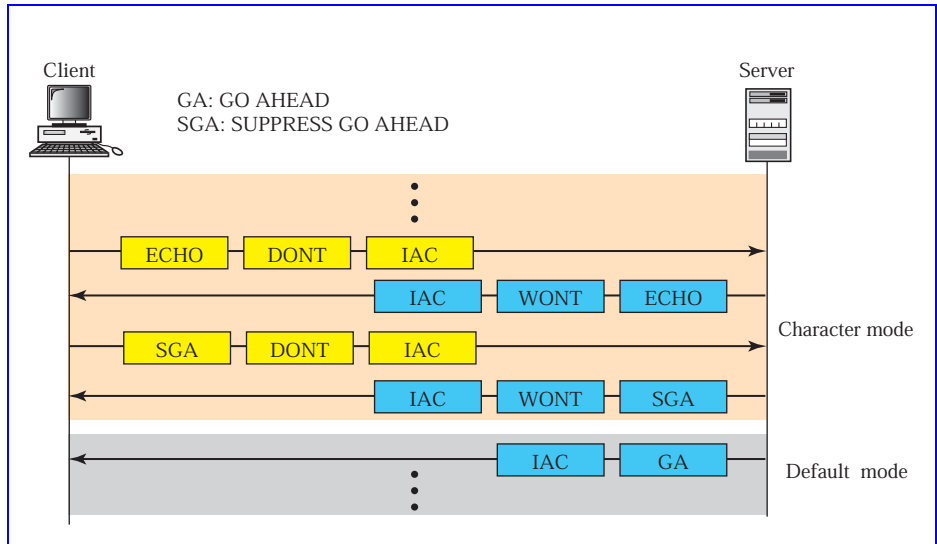
9. See Figure 18.2.

Figure 18.2   *Exercise 9*
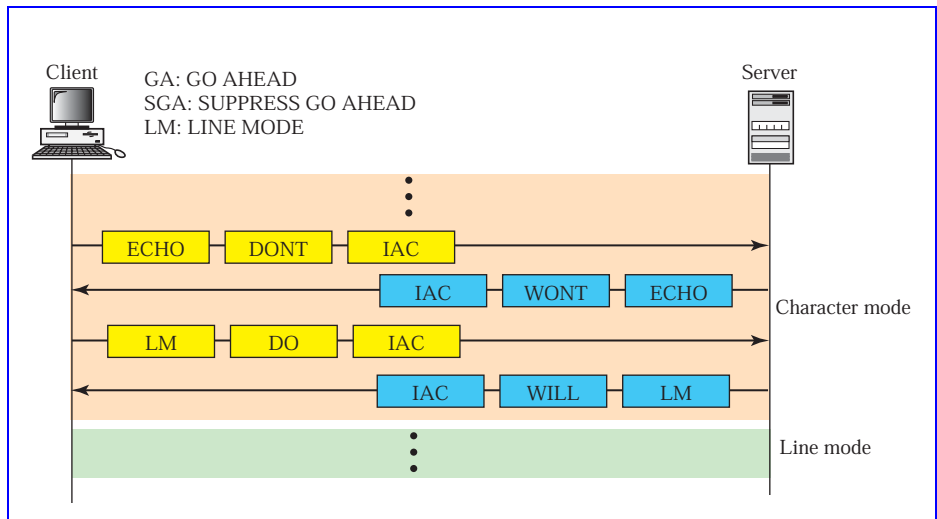
11. See Figure 18.3.

Figure 18.3 *Exercise 11*