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**Ex3andEx5Chp3**

**Exercise 3-Chapter 3**

The following data fragment occurs in the middle of a data stream for which the byte stuffing algorithm described in the text is used: A B ESC C ESC FLAG FLAG D. What is the output after stuffing?

The output after stuffing would be A B ESC ESC C ESC ESC ESC FLAG ESC FLAG D.

**Exercise 5-Chapter 3**

One of your classmates, Scrooge, has pointed out that it is wasteful to end each frame with a flag byte and then begin the next one with a second flag byte. One flag byte could do the job as well, and a byte saved is a byte earned. Do you agree?

No, it could not do the job as well because the receiver would not know where the frames start and end because it only has one. There needs to be a flag byte at the beginning and end so it knows the beginning and end.