

6 Control Flow

6.10 Explorations

- 6.43 Learn about Snobol, an earlier language by Ralph Griswold, who also designed Icon. How do the two languages compare?
- 6.44 Chapter 18 of Griswold's text on Icon [GG96] discusses scanning and parsing. After reading this chapter, explain how backtracking search can be used to generalize recursive descent. What classes of grammars can you parse with this generalized technique? What is the worst-case time complexity?
- 6.45 Learn about the `select` routine in the Unix (POSIX) library. How does it deal with the need for nondeterministic receipt from multiple communication partners? How would you use this routine to achieve the effect of the SR code in Example ©6.93?
- 6.46 Explain how to use threads in Java to achieve the effect of Example ©6.93.

