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Chapter Five **ALGORITHMS**

Chapter Summary

In this chapter we turn to an explicit study of algorithms — a topic that was introduced as the core of computer science in Chapter 0. The chapter begins with a formal definition of an algorithm and a discussion of the meaning of that definition. This leads to a discussion of algorithm creation (a creative process that parallels the more generic task of problem solving) and algorithm representation (the process of expressing an algorithm in preparation for, or during, programming). The chapter closes with the subjects of algorithm efficiency (using big theta notation) and correctness.

The search for algorithm development techniques is presented as an ongoing activity — not a settled issue. The chapter discusses some of the ideas proposed by researchers in the field of problem solving and relates these ideas to the problem of algorithm discovery and representation.

This chapter also presents iterative structures by means of the sequential search and insertion sort algorithms as well as recursive structures by means of the binary search algorithm. In each case, emphasis is placed on the components involved in controlling the repetitive process.

For communication purposes, the chapter introduces a pseudocode that is closely aligned with Python. This pseudocode is also used at times later in the text, although these later appearances are rather intuitive in that they do not require previous, rigorous coverage of this chapter. So, if you're teaching a course for non-majors, you can treat the pseudocode lightly without creating problems in future chapters.

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Wenbin Ji



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