

Chapter 2 - Getting Started

Exercises & Problems

1 Exercises

1.1 Insertion Sort

1.1.1 Exercise 2.1-1

Using Figure 2.2 as a model, illustrate the operation of INSERTION-SORT on the array $A = \{31, 41, 59, 26, 41, 58\}$.

1.1.2 Exercise 2.1-2

1.1.3 Exercise 2.1-3

1.1.4 Exercise 2.1-4

1.2 Analyzing Algorithms

1.2.1 Exercise 2.2-1

1.2.2 Exercise 2.2-2

1.2.3 Exercise 2.2-3

1.2.4 Exercise 2.2-4

1.3 Designing Algorithms

1.3.1 Exercise 2.3-1

1.3.2 Exercise 2.3-2

1.3.3 Exercise 2.3-3

1.3.4 Exercise 2.3-4

1.3.5 Exercise 2.3-5

1.3.6 Exercise 2.3-6

1.3.7 Exercise 2.3-7

2 Problems

2.1 Insertion Sort on Small Arrays in Merge Sort

2.2 Correctness of Bubble Sort

2.3 Correctness of Horner's Rule

2.4 Inversions