

## CHAPTER 2

## Basic Structures: Sets, Functions, Sequences, Sums, and Matrices

## SECTION 2.1 Sets

2. There are of course an infinite number of correct answers.

- $\{3n \mid n = 0, 1, 2, 3, 4\}$  or  $\{x \mid x \text{ is a multiple of } 3 \wedge 0 \leq x \leq 12\}$ .
- $\{x \mid -3 \leq x \leq 3\}$ , where we are assuming that the domain (universe of discourse) is the set of integers.
- $\{x \mid x \text{ is a letter of the word } \text{managery} \text{ other than } l \text{ or } y\}$ .

4. Recall that one set is a subset of another set if every element of the first set is also an element of the second.

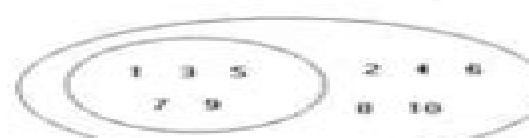
- The second condition imposes an extra requirement, so clearly the second set is a subset of the first, but not vice versa.
- Again the second condition imposes an extra requirement, so the second set is a subset of the first, but not vice versa.
- There could well be students studying discrete mathematics but not data structures (for example, pure math majors) and students studying data structure but not discrete mathematics (at least not this semester— one could argue that the former is necessary to really understand the latter), so neither set is a subset of the other.

6. Each of the sets is a subset of itself. Aside from that, the only relations are  $B \subseteq A$ ,  $C \subseteq A$ , and  $C \subseteq D$ .

8. a) Since the set contains only integers and  $\{2\}$  is a set, not an integer,  $\{2\}$  is not an element.  
 b) Since the set contains only integers and  $\{2\}$  is a set, not an integer,  $\{2\}$  is not an element.  
 c) The set has two elements. One of them is patently  $\{2\}$ .  
 d) The set has two elements. One of them is patently  $\{2\}$ .  
 e) The set has two elements. One of them is patently  $\{2\}$ .  
 f) The set has only one element,  $\{\{2\}\}$ ; since this is not the same as  $\{2\}$  (the former is a set containing a set, whereas the latter is a set containing a number),  $\{2\}$  is not an element of  $\{\{2\}\}$ .

10. a) true    b) true    c) false—see part (a)    d) true  
 e) true—the one element in the set on the left is an element of the set on the right, and the sets are not equal  
 f) true—similar to part (e)    g) false—the two sets are equal

12. The numbers 1, 3, 5, 7, and 9 form a subset of the set of all ten positive integers under discussion, as shown here.



# Solutions Manual Discrete Mathematical Structures

**Judith L. Gersting**

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