**Chapter 1: Computer Systems**

***Solutions***

**Self Review (answers are in book)**

1.1, 1.2, 1.4, 1.5, 1.6, 1.7, 1.8, 1.13, 1.14, 1.15, 1.16

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| **Multiple Choice**  **Solutions** |  |
| 1. c 2. b 3. d 4. e 5. a 6. c 7. b 8. e |  |

**Short Answer Solutions**

1. Give examples of the two types of Java comments and explain the differences between them.

One kind of comment begins with a double slash (//) and continues to the end of the line. A second kind of comment begins following an initiating slash-asterisk (/\*) and terminates immediately preceding a terminating asterisk-slash (\*/). The second type of comment can span multiple lines.

1. Why are the following valid Java identifiers not considered good identi­fiers?
2. Q

Q is a meaningless name

1. TotVal

TotalValue would be more meaningful than the abbreviation

1. theNextValueInTheList

too lengthy; nextValue would serve as well

1. Categorize each of the following situations as a compile-time error, run-time error, or logical error.
2. multiplying two numbers when you meant to add them

a logical error

1. dividing by zero

a run-time error

1. forgetting a semicolon at the end of a programming statement

a compile-time error

1. spelling a word wrong in the output

a logical error

1. producing inaccurate results

a logical error

1. typing a { when you should have typed (

a compile-time error