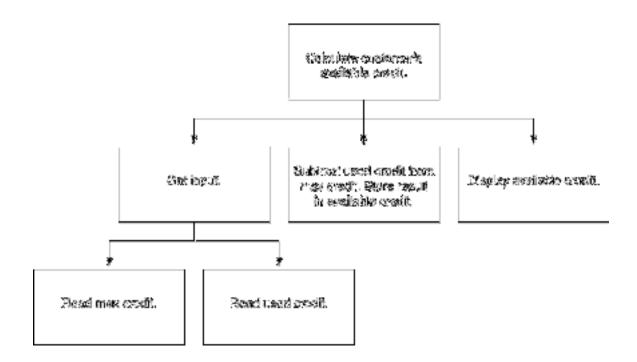
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## Answers to Review Questions

## Chapter 1

- 1. Main memory, or RAM, is volatile, which means its contents are erased when power is removed from the computer. Secondary memory, such as a disk, does not lose its contents when power is removed from the computer.
- 2. An operating system is a set of programs that manages the computer's hardware devices and controls their processes. Application software consists of programs that users use to solve specific problems or perform general operations.
- 3. An operating system
- 4. Because the computer only processes machine language instructions.
- 5. Because high level languages are more like natural language.
- 6. An object file contains machine language instructions, but it does not contain code for any library routines that may be necessary. An executable file is a program, ready to run. It contains the machine language code translated from the programmer's source file, as well as the code for any necessary library routines.
- 7. A syntax error is the misuse of a key word, operator, punctuation, or other part of the programming language. A logical error is a mistake that causes the program to produce the wrong results.
- 8. programmed
- 9. CPU
- 10. Arithmetic Logic Unit and Control Unit
- 11. disk
- 12. Operating Systems and Application Software
- 13. instructions
- 14. programming language
- 15. machine language
- 16. high-level
- 17. low-level
- 18. portability
- 19. key words
- 20. programmer-defined symbols
- 21. operators
- 22. punctuation
- 23. syntax
- 24. variable
- 25. defined
- 26. input, processing, output
- 27. input
- 28. output
- 29. hierarchy chart
- 30. Hierarchy chart:

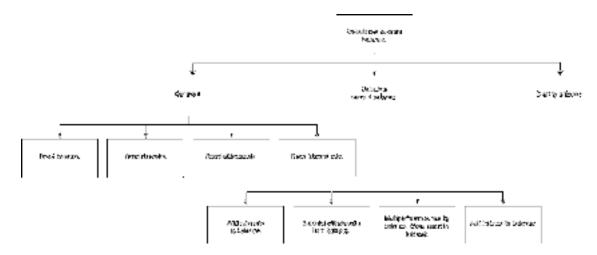
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31. Hierarchy chart:



32. Hierarchy chart:



33.7

34.28

35.365

36. The error is that the program performs its math operation before the user has entered values for the variables length and width.

## Answers to Review Questions Chapter 2

```
1.
      1, 2, 3
2.
      double temp, weight, age;
3.
      int months = 2, days, years = 3;
4.
      A) b = a + 2;
      B) a = b * 4;
      C) b = a / 3.14;
      D) a = b - 8;
      E) a = 27;
      F) c = 'K';
      G) c = 66;
5.
      Multi-line comment
6.
      Single line comment
7.
      #include <iostream>
      int main()
      {
             cout << "Two mandolins like creatures in the\n\n\n";</pre>
             cout << "dark\n\n\n";</pre>
             cout << "Creating the agony of ecstasy.\n\n\n";</pre>
             cout << " - George Barker\n\n\n";</pre>
             return 0;
      }
8.
             0
      A)
             100
             8
      B)
             2
      C)
             I am the incrediblecomputing
             machine
             and I will
             amaze
             you.
             Be careful
      D)
             This might/n be a trick question
             23
      E)
             1
9.
      С
10.
      С
11.
      В
12.
      А
13.
      В
14.
      А
15.
      B.C
16.
      B, C, D
      A) 12 B) 4 C) 2 D) 6 E) 1
17.
```

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```
18.
      A) 3.287E6 B) -978.65E12 C) 7.65491E-3 D)-58710.23E-4
19.
      А
20.
      С
21.
      А
22.
      true
23.
      false
24.
      true
25.
      true
26.
      false
27.
      int speed, time, distance;
      speed = 20;
      time = 10;
      distance = speed * time;
      cout << distance << endl;</pre>
28.
      double force, area, pressure;
      force = 172.5;
      area = 27.5;
      pressure = force / area;
      cout << pressure << endl;</pre>
29.
      The C-style comments symbols are backwards.
      iostream should be enclosed in angle brackets.
      There shouldn't be a semicolon after int main.
      The opening and closing braces of function main are reversed.
      There should be a semicolon after int a, b, c.
      The comment \\ Three integers should read // Three integers.
      There should be a semicolon at the end of the following lines:
            a = 3
            b = 4
            c = a + b
      cout begins with a capital letter.
      The stream insertion operator (that appears twice in the cout statement) should
```

read << instead of <.

The cout statement uses the variable C instead of c.