### Problem Solving with C++ 8th Edition Savitch Test Bank

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Test Bank for Problem Solving with C++: The Object of Programming, 8/e Chapter 2 C++ Basics

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1. In the following code fragment, x has the value of 3.

int x = 3;

ANSWER: TRUE

2. The body of a do-while loop always executes at least once.

ANSWER: TRUE

3. The body of a while loop may never execute.

ANSWER: TRUE

4. The opposite of (x > 3 & x < 10) is (x < 3 & x > 10)

ANSWER: FALSE

5. The integer 0 is considered true.

ANSWER: FALSE

6. Loops are used when we need our program to make a choice between two or more things.

ANSWER: FALSE

7. It is legal to declare more than one variable in a single statement.

ANSWER: TRUE

8. Variable names may begin with a number.

ANSWER: FALSE

9. The opposite of less than is greater than

ANSWER: FALSE

10. Every line in a program should have a comment.

ANSWER: FALSE

1.	<< is called the stream operator.
	ANSWER: insertion
2.	The braces for a loop define the of the loop.
	ANSWER: body
3.	A loop that always executes the loop body at least once is known as a
	loop.
	ANSWER: do-while
4.	int myValue; is called a
	ANSWER: variable declaration
5.	What is the opposite of ( $x < 20 \&\& x > 12$ )?
	ANSWER: $(x > 20    x < 12)$
6.	What is the correct conditional statement to determine if x is between 19 and 99?
	$\overline{\text{ANSWER: } (x > 19 \&\& x < 99)}$
7.	Each time a loop body executes is known as an
	ANSWER: iteration
8.	if-else statements that are inside other if-else statements are said to be

ANSWER: nested

9.	>> is known as the stream operator.
10	ANSWER: extraction
10.	Is << used for input or output?
11	ANSWER: output  The stream that is used for input from the leavheard is called
11.	The stream that is used for input from the keyboard is called  ANSWER: cin
10	
12.	The stream that is used for output to the screen is called
1.2	ANSWER: cout
13.	Write the loop condition to continue a while loop as long as x is negative.
	$\overline{\text{ANSWER: while}(x < 0)}$
14.	When must we use braces to define the body of a contitional expression?
	ANSWER: When there are multiple statements in the body.
15.	In a compound logical and (&&) expression, the evaluation of the expression
	stops once one of the terms of the expression is false. This is known as
	evaluation.
	ANSWER: short-circuit evaluation
Multip	le Choice
1.	Which of the following is a valid identifier?
	a. 3com
	b. three_com
	c. 3_com
	d. 3-com
	e. dollar\$
	ANSWER: C
2.	Which of the following is not a valid identifier?
	a. return
	b. myInt
	c. myInteger
	d. total3
	ANSWER: A
3.	What is the value of x after the following statements?
	int x, y, z;
	y = 10;
	z=3;
	x = y * z + 3;
	a. Garbage
	b. 60

d. 33 ANSWER: D

c. 30

4. What is the value of x after the following statements?

```
int x;
          x = 0;
          x = x + 30;
       a. 0
       b. 30
       c. 33
       d. garbage
   ANSWER: B
5. What is the value of x after the following statements?
          int x;
          x = x + 30;
       a. 0
       b. 30
       c. 33
       d. garbage
   ANSWER: D
6. What is the output of the following code?
          float value;
          value = 33.5;
          cout << value << endl;</pre>
       a. 33.5
       b. 33
       c. value
       d. garbage
   ANSWER: A
7. What is the output of the following code?
          float value;
          value = 33.5;
          cout << "value" << endl;</pre>
       a. 33.5
       b. 33
       c. value
       d. garbage
   ANSWER: C
8. What is the output of the following code?
          cout << "This is a \\" << endl;
       a. This is a
       b. This is a \
       c. nothing, it is a syntax error
       d. This is a \ endl
   ANSWER: B
9. Which of the following lines correctly reads a value from the keyboard and stores
   it in the variable named myFloat?
       a. cin >> myFloat;
       b. cin << myFloat;
       c. cin >> "myFloat";
```

d. cin >> myFloat >> endl; ANSWER: A 10. Another way to write the value 3452211903 is a. 3.452211903e09 b. 3.452211903e-09 c. 3.452211903x09 d. 3452211903e09 ANSWER: A 11. Which of the following statements is NOT legal? a. char ch='b'; b. char ch='0'; c. char ch=65; d. char ch="cc"; ANSWER: D 12. What is the value of x after the following statements? float x; x = 15/4; a. 3.75 b. 4.0 c. 3.0 d. 60 ANSWER: C 13. What is the value of x after the following statements? int x; x = 15/4; a. 15 b. 3 c. 4 d. 3.75 ANSWER: B 14. What is the value of x after the following statements? int x; x = 15 % 4; a. 15 b. 4 c. 3 d. 3.75 ANSWER: C 15. What is the value of x after the following statement? float x: x = 3.0 / 4.0 + 3 + 2 / 5a. 5.75 b. 5.75

c. 1.75 d. 3.75 ANSWER: D

```
16. What is the value of x after the following statement?
           float x;
           x = 3.0 / 4.0 + (3 + 2) / 5
       a. 5.75
       b. 5.75
       c. 1.75
       d. 3.75
   ANSWER: C
17. What is the value of x after the following statements?
           double x;
           x = 0;
           x += 3.0 * 4.0;
           x = 2.0;
       a. 22.0
       b. 12.0
       c. 10.0
       d. 14.0
   ANSWER: C
18. Given the following code fragment and the input value of 4.0, what output is
   generated?
           float tax;
           float total;
           cout << "enter the cost of the item\n";
           cin >> total;
           if (total \geq 3.0)
                  tax = 0.10;
                  cout << total + (total * tax) << endl;</pre>
           }
           else
           {
                  cout << total << endl;</pre>
       a. 3
       b. 3.3
       c. 4.0
       d. 4.4
   ANSWER: D
19. Given the following code fragment and the input value of 2.0, what output is
   generated?
           float tax;
           float total;
           cout << "enter the cost of the item\n";
```

```
cin >> total;
           if (total \geq 3.0)
                   tax = 0.10;
                   cout << total + (total * tax) << endl;</pre>
           }
           else
           {
                   cout << total << endl;</pre>
           }
       a. 2.2
       b. 2.0
       c. 3.1
       d. 4.4
   ANSWER: B
20. If x has the value of 3, y has the value of -2, and w is 10, is the following
   condition true or false?
           if( x < 2 \&\& w < y)
       a. true
       b. false
   ANSWER: B
21. What is the correct way to write the condition y < x < z?
       a. (y < x < z)
       b. ((y < x) \&\& z)
       c. ((y > x) || (y < z))
       d. ((y < x) && (x < z))
   ANSWER: D
22. Given the following code fragment, and an input value of 3, what is the output
    that is generated?
           int x;
           cout << "Enter a value\n";</pre>
           cin >> x;
           if(x=0)
           {
                   cout \ll "x is zero\n";
           }
           else
           {
                  cout << "x is not zero\n";
           }
       a. x is zero
       b. x is not zero
       c. unable to determine
       d. x is 3
   ANSWER: A (note it is an assignment!)
```

```
23. Given the following code fragment, and an input value of 5, what is the output?
       int x;
       if (x < 3)
       {
           cout << "small\n";</pre>
       else
           if( x < 4)
           {
                   cout << "medium\n";</pre>
           else
           {
                   if( x < 6)
                           cout << "large\n";</pre>
                   }
                   else
                   {
                           cout << "giant\n";</pre>
                   }
           }
       }
       a. small
       b. medium
       c. large
       d. giant
    ANSWER: C
24. Given the following code fragment, what is the output?
       int x=5;
       if (x > 5)
           cout << "x is bigger than 5. ";
           cout << "That is all. ";</pre>
       cout << "Goodbye\n";</pre>
       a. x is bigger than 5. That is all
       b. x is bigger than 5
       c. That is all. Goodbye
       d. Goodbye
    ANSWER: C
25. Executing one or more statements one or more times is known as:
       a. selection
       b. iteration
       c. sequence
       d. algorithm
   ANSWER: B
```

```
26. Given the following code fragment, what is the final value of y?
       int x, y;
       x = -1;
       y = 0;
       while(x \le 3)
          y += 2;
          x += 1;
       a. 2
       b. 10
       c. 6
       d. 8
   ANSWER: B
27. Given the following code fragment, what is the final value of y?
       int x, y;
       x = -1;
       y = 0;
       while(x < 3)
          y += 2;
          x += 1;
       a. 2
       b. 10
       c. 6
       d. 8
   ANSWER: D
28. What is the output of the following code fragment?
       int x=0;
       while (x < 5)
          cout << x << endl;
          x ++;
       cout << x << endl;
       a. 0
       b. 5
       c. 4
       d. unable to determine
   ANSWER: D (infinite loop)
29. What is the final value of x after the following fragment of code executes?
       int x=0;
       do
       {
          x++;
       \}while(x > 0);
       a. 8
```

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- b. 9
- c. 10
- d. 11
- e. infinite loop.

### ANSWER: E

30. Given the following code fragment, which of the following expressions is always true?

- int x;
- cin >> x;
- a. if (x < 3)
- b. if( x==1)
- c. if (x/3) > 1
- d. if (x = 1)
- ANSWER: D