

Chapter 2

1. In C++, reserved words are the same as predefined identifiers.

- a. True
- b. False

ANSWER: False
POINTS: 1
REFERENCES: 36
QUESTION TYPE: True / False
HAS VARIABLES: False
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2. The maximum number of significant digits in values of the double type is 15.

- a. True
- b. False

ANSWER: True
POINTS: 1
REFERENCES: 41
QUESTION TYPE: True / False
HAS VARIABLES: False
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3. The maximum number of significant digits in float values is up to 6 or 7.

- a. True
- b. False

ANSWER: True
POINTS: 1
REFERENCES: 42
QUESTION TYPE: True / False
HAS VARIABLES: False
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4. An operator that has only one operand is called a unique operator.

- a. True
- b. False

ANSWER: False
POINTS: 1
REFERENCES: 45
QUESTION TYPE: True / False
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5. If a C++ arithmetic expression has no parentheses, operators are evaluated from left to right.

- a. True
- b. False

ANSWER: True
 POINTS: 1
 REFERENCES: 46
 QUESTION TYPE: True / False
 HAS VARIABLES: False
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6. A mixed arithmetic expression contains all operands of the same type.

- a. True
- b. False

ANSWER: False
 POINTS: 1
 REFERENCES: 48
 QUESTION TYPE: True / False
 HAS VARIABLES: False
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7. Suppose $a = 5$. After the execution of the statement `++a`; the value of a is 6.

- a. True
- b. False

ANSWER: True
 POINTS: 1
 REFERENCES: 70
 QUESTION TYPE: True / False
 HAS VARIABLES: False
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8. The escape sequence `\r` moves the insertion point to the beginning of the next line.

- a. True
- b. False

ANSWER: False
 POINTS: 1
 REFERENCES: 7
 QUESTION TYPE: True / False

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9. A comma is also called a statement terminator.

- | | |
|----|-------|
| a. | True |
| b. | False |

<i>ANSWER:</i>	False
<i>POINTS:</i>	1
<i>REFERENCES:</i>	88
<i>QUESTION TYPE:</i>	True / False
<i>HAS VARIABLES:</i>	False
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10. Suppose we declare a variable `sum` as an `int`. The statement "`sum += 7;`" is equivalent to the statement "`sum = sum + 7;`".

- | | |
|----|-------|
| a. | True |
| b. | False |

<i>ANSWER:</i>	True
<i>POINTS:</i>	1
<i>REFERENCES:</i>	93
<i>QUESTION TYPE:</i>	True / False
<i>HAS VARIABLES:</i>	False
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11. The ____ rules of a programming language tell you which statements are legal, or accepted, by the programming language.

- | | |
|-------------|----------------|
| a. semantic | b. logical |
| c. syntax | d. grammatical |

<i>ANSWER:</i>	c
<i>POINTS:</i>	1
<i>REFERENCES:</i>	34
<i>QUESTION TYPE:</i>	Multiple Choice
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12. Which of the following is a reserved word in C++?

- | | |
|---------|--------------|
| a. char | b. Char |
| c. CHAR | d. character |

<i>ANSWER:</i>	a
----------------	---

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POINTS: 1
 REFERENCES: 35
 QUESTION TYPE: Multiple Choice
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13. Which of the following is a legal identifier?

- | | |
|-------------|--------------|
| a. program! | b. program_1 |
| c. lprogram | d. program 1 |

ANSWER: b
 POINTS: 1
 REFERENCES: 36
 QUESTION TYPE: Multiple Choice
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14. ____ is a valid int value.

- | | |
|-----------|-----------|
| a. 46,259 | b. 46259 |
| c. 462.59 | d. -32.00 |

ANSWER: b
 POINTS: 1
 REFERENCES: 39
 QUESTION TYPE: Multiple Choice
 HAS VARIABLES: False
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15. ____ is a valid char value.

- | | |
|-----------|--------|
| a. "-129" | b. 'A' |
| c. "A" | d. 129 |

ANSWER: b
 POINTS: 1
 REFERENCES: 40
 QUESTION TYPE: Multiple Choice
 HAS VARIABLES: False
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16. An example of a floating point data type is ____.

- | | |
|--------|---------|
| a. int | b. char |
|--------|---------|

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c. double

d. short

ANSWER:

c

POINTS:

1

REFERENCES:

41

QUESTION TYPE:

Multiple Choice

HAS VARIABLES:

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17. The memory allocated for a float value is ____ bytes.

a. two

b. four

c. eight

d. sixteen

ANSWER:

b

POINTS:

1

REFERENCES:

41

QUESTION TYPE:

Multiple Choice

HAS VARIABLES:

False

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18. The value of the expression $17 \% 7$ is ____.

a. 1

b. 2

c. 3

d. 4

ANSWER:

c

POINTS:

1

REFERENCES:

43

QUESTION TYPE:

Multiple Choice

HAS VARIABLES:

False

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19. The value of the expression $33/10$, assuming both values are integral data types, is ____.

a. 0.3

b. 3

c. 3.0

d. 3.3

ANSWER:

b

POINTS:

1

REFERENCES:

43-44

QUESTION TYPE:

Multiple Choice

HAS VARIABLES:

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20. The expression `static_cast<int>(9.9)` evaluates to ____.

- | | |
|--------|--------|
| a. 9 | b. 10 |
| c. 9.9 | d. 9.0 |

ANSWER: a
 POINTS: 1
 REFERENCES: 51
 QUESTION TYPE: Multiple Choice
 HAS VARIABLES: False
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21. The expression `static_cast<int>(6.9) + static_cast<int>(7.9)` evaluates to ____.

- | | |
|---------|-------|
| a. 13 | b. 14 |
| c. 14.8 | d. 15 |

ANSWER: a
 POINTS: 1
 REFERENCES: 51
 QUESTION TYPE: Multiple Choice
 HAS VARIABLES: False
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22. The length of the string "computer science" is ____.

- | | |
|-------|-------|
| a. 14 | b. 15 |
| c. 16 | d. 18 |

ANSWER: c
 POINTS: 1
 REFERENCES: 53
 QUESTION TYPE: Multiple Choice
 HAS VARIABLES: False
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23. In a C++ program, one and two are double variables and input values are 10.5 and 30.6. After the statement `cin >> one >> two;` executes, ____.

- | | |
|---------------------------|---------------------------|
| a. one = 10.5, two = 10.5 | b. one = 10.5, two = 30.6 |
| c. one = 30.6, two = 30.6 | d. one = 11, two = 31 |

ANSWER: b
 POINTS: 1
 REFERENCES: 65
 QUESTION TYPE: Multiple Choice
 HAS VARIABLES: False

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24. Suppose that `count` is an `int` variable and `count = 1`. After the statement `count++`; executes, the value of `count` is ____.

- | | |
|------|------|
| a. 1 | b. 2 |
| c. 3 | d. 4 |

ANSWER: b
 POINTS: 1
 REFERENCES: 69-70
 QUESTION TYPE: Multiple Choice
 HAS VARIABLES: False
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25. Suppose that `alpha` and `beta` are `int` variables. The statement `alpha = --beta`; is equivalent to the statement(s) ____.

- a. `alpha = 1 - beta`;
- b. `alpha = beta - 1`;
- c. `beta = beta - 1`;
`alpha = beta`;
- d. `alpha = beta`;
`beta = beta - 1`;

ANSWER: c
 POINTS: 1
 REFERENCES: 70-71
 QUESTION TYPE: Multiple Choice
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26. Suppose that `alpha` and `beta` are `int` variables. The statement `alpha = beta--`; is equivalent to the statement(s) ____.

- a. `alpha = 1 - beta`;
- b. `alpha = beta - 1`;
- c. `beta = beta - 1`;
`alpha = beta`;
- d. `alpha = beta`;
`beta = beta - 1`;

ANSWER: d
 POINTS: 1
 REFERENCES: 70-71
 QUESTION TYPE: Multiple Choice

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27. Suppose that alpha and beta are int variables. The statement `alpha = beta++;` is equivalent to the statement(s) ____.

- a. `alpha = 1 + beta;`
- b. `alpha = alpha + beta;`
- c. `alpha = beta;`
`beta = beta + 1;`
- d. `beta = beta + 1;`
`alpha = beta;`

<i>ANSWER:</i>	c
<i>POINTS:</i>	1
<i>REFERENCES:</i>	70-71
<i>QUESTION TYPE:</i>	Multiple Choice
<i>HAS VARIABLES:</i>	False
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28. Suppose that alpha and beta are int variables. The statement `alpha = ++beta;` is equivalent to the statement(s) ____.

- a. `beta = beta + 1;`
`alpha = beta;`
- b. `alpha = beta;`
`beta = beta + 1;`
- c. `alpha = alpha + beta;`
- d. `alpha = beta + 1;`

<i>ANSWER:</i>	a
<i>POINTS:</i>	1
<i>REFERENCES:</i>	70-71
<i>QUESTION TYPE:</i>	Multiple Choice
<i>HAS VARIABLES:</i>	False
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29. Choose the output of the following C++ statement:

```
cout << "Sunny " << '\n' << "Day " << endl;
```

- a. Sunny \nDay
- b. Sunny \nDay endl
- c. Sunny
Day
- d. Sunny \n
Day

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ANSWER:	c
POINTS:	1
REFERENCES:	72
QUESTION TYPE:	Multiple Choice
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30. Which of the following is the newline character?

- | | | | |
|----|----|----|----|
| a. | \r | b. | \n |
| c. | \l | d. | \b |

ANSWER:	b
POINTS:	1
REFERENCES:	72
QUESTION TYPE:	Multiple Choice
HAS VARIABLES:	False
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31. Consider the following code.

```
// Insertion Point 1

using namespace std;
const float PI = 3.14;

int main()
{
//Insertion Point 2

float r = 2.0;
float area;
area = PI * r * r;

cout << "Area = " << area << endl;
return 0;
}
// Insertion Point 3
```

In this code, where does the include statement belong?

- | | | | |
|----|-------------------|----|-------------------------|
| a. | Insertion Point 1 | b. | Insertion Point 2 |
| c. | Insertion Point 3 | d. | Anywhere in the program |

ANSWER:	a
POINTS:	1
REFERENCES:	82
QUESTION TYPE:	Multiple Choice

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32. _____ are executable statements that inform the user what to do.
- | | |
|--------------------|-----------------|
| a. Variables | b. Prompt lines |
| c. Named constants | d. Expressions |

ANSWER:	b
POINTS:	1
REFERENCES:	89
QUESTION TYPE:	Multiple Choice
HAS VARIABLES:	False
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33. The declaration `int a, b, c;` is equivalent to which of the following?
- | | |
|------------------------------|----------------------------|
| a. <code>inta , b, c;</code> | b. <code>int a,b,c;</code> |
| c. <code>int abc;</code> | d. <code>int a b c;</code> |

ANSWER:	b
POINTS:	1
REFERENCES:	90
QUESTION TYPE:	Multiple Choice
HAS VARIABLES:	False
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34. Suppose that alpha and beta are int variables and alpha = 5 and beta = 10. After the statement `alpha *= beta;` executes, _____.

- | | |
|---------------|-----------------|
| a. alpha = 5 | b. alpha = 10 |
| c. alpha = 50 | d. alpha = 50.0 |

ANSWER:	c
POINTS:	1
REFERENCES:	92
QUESTION TYPE:	Multiple Choice
HAS VARIABLES:	False
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35. Suppose that sum and num are int variables and sum = 5 and num = 10. After the statement `sum += num` executes, _____.

- | | |
|-------------|-------------|
| a. sum = 0 | b. sum = 5 |
| c. sum = 10 | d. sum = 15 |

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ANSWER: d
 POINTS: 1
 REFERENCES: 93
 QUESTION TYPE: Multiple Choice
 HAS VARIABLES: False
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36. _____ is the process of planning and creating a program.

ANSWER: Programming
 programming
 POINTS: 1
 REFERENCES: 28
 QUESTION TYPE: Completion
 HAS VARIABLES: False
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37. A(n) _____ is a memory location whose contents can be changed.

ANSWER: variable
 POINTS: 1
 REFERENCES: 33
 QUESTION TYPE: Completion
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38. A(n) _____ is a collection of statements, and when it is activated, or executed, it accomplishes something.

ANSWER: subprogram
 sub program
 sub-program
 function
 module
 POINTS: 1
 REFERENCES: 33
 QUESTION TYPE: Completion
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39. _____ functions are those that have already been written and are provided as part of the system.

ANSWER: Predefined
 predefined

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Standard
standard

POINTS: 1

REFERENCES: 33-34

QUESTION TYPE: Completion

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40. _____ rules determine the meaning of instructions.

ANSWER: Semantic
semantic

POINTS: 1

REFERENCES: 34

QUESTION TYPE: Completion

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41. _____ can be used to identify the authors of the program, give the date when the program is written or modified, give a brief explanation of the program, and explain the meaning of key statements in a program.

ANSWER: Comments
comments

POINTS: 1

REFERENCES: 34

QUESTION TYPE: Completion

HAS VARIABLES: False

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42. The smallest individual unit of a program written in any language is called a(n) _____.

ANSWER: token

POINTS: 1

REFERENCES: 35

QUESTION TYPE: Completion

HAS VARIABLES: False

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43. In a C++ program, _____ are used to separate special symbols, reserved words, and identifiers.

ANSWER: whitespaces
whitespace
white spaces
white space

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POINTS: 1
 REFERENCES: 37
 QUESTION TYPE: Completion
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44. The _____ type is C++ 's method for allowing programmers to create their own simple data types.

ANSWER: enumeration
 POINTS: 1
 REFERENCES: 38
 QUESTION TYPE: Completion
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45. The memory space for a(n) _____ data value is 64 bytes.

ANSWER: long long
 POINTS: 1
 REFERENCES: 39
 QUESTION TYPE: Completion
 HAS VARIABLES: False
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46. The maximum number of significant digits is called the _____.

ANSWER: precision
 POINTS: 1
 REFERENCES: 42
 QUESTION TYPE: Completion
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47. When a value of one data type is automatically changed to another data type, a(n) _____ type coercion is said to have occurred.

ANSWER: implicit
 POINTS: 1
 REFERENCES: 50
 QUESTION TYPE: Completion
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48. A(n) _____ is a sequence of zero or more characters.

ANSWER: string

POINTS: 1

REFERENCES: 53

QUESTION TYPE: Completion

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49. In C++, you can use a(n) _____ to instruct a program to mark those memory locations in which data is fixed throughout program execution.

ANSWER: named constant
constant

POINTS: 1

REFERENCES: 54

QUESTION TYPE: Completion

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50. A data type is called _____ if the variable or named constant of that type can store only one value at a time.

ANSWER: simple

POINTS: 1

REFERENCES: 57

QUESTION TYPE: Completion

HAS VARIABLES: False

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