

Full kink download C++ Programming From Problem Analysis to Program
Design 8th Edition by Malik

Test bank:

<https://testbankpack.com/p/test-bank-for-c-programming-from-problem-analysis-to-program-design-8th-edition-by-malik-isbn-9781337102087/>

Soluiton manual:

<https://testbankpack.com/p/solution-manual-for-c-programming-from-problem-analysis-to-program-design-8th-edition-by-malik-isbn-9781337102087/>

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

DATE CREATED: 10/5/2016 1:36 PM

DATE MODIFIED: 10/5/2016 1:36 PM

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

DATE CREATED: 10/5/2016 1:36 PM

DATE MODIFIED: 10/5/2016 1:36 PM

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

DATE CREATED: 10/5/2016 1:36 PM

DATE MODIFIED: 10/5/2016 1:36 PM

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

HAS VARIABLES: False

DATE CREATED: 10/5/2016 1:36 PM

DATE MODIFIED: 10/5/2016 1:36 PM

Chapter 2

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

DATE CREATED: 10/5/2016 1:36 PM

DATE MODIFIED: 10/5/2016 1:36 PM

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

DATE CREATED: 10/5/2016 1:36 PM

DATE MODIFIED: 10/5/2016 1:36 PM

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

DATE CREATED: 10/5/2016 1:36 PM

DATE MODIFIED: 10/5/2016 1:36 PM

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

HAS VARIABLES: False

DATE CREATED: 10/5/2016 1:36 PM

Chapter 2

DATE MODIFIED: 10/5/2016 1:36 PM

9. A comma is also called a statement terminator.

- a. True
- b. False

ANSWER: False

POINTS: 1

REFERENCES: 88

QUESTION TYPE: True / False

HAS VARIABLES: False

DATE CREATED: 10/5/2016 1:36 PM

DATE MODIFIED: 10/5/2016 1:36 PM

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

ANSWER: True

POINTS: 1

REFERENCES: 93

QUESTION TYPE: True / False

HAS VARIABLES: False

DATE CREATED: 10/5/2016 1:36 PM

DATE MODIFIED: 10/16/2016 9:02 AM

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

ANSWER: c

POINTS: 1

REFERENCES: 34

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

DATE CREATED: 10/5/2016 1:36 PM

DATE MODIFIED: 10/16/2016 9:03 AM

12. Which of the following is a reserved word in C++?

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

ANSWER: a

POINTS: 1

REFERENCES: 35

Chapter 2

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

DATE CREATED: 10/5/2016 1:36 PM

DATE MODIFIED: 10/5/2016 1:36 PM

13. Which of the following is a legal identifier? a. program! b. program_1
c. 1program d. program 1

ANSWER: b

POINTS: 1

REFERENCES: 36

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

DATE CREATED: 10/5/2016 1:36 PM

DATE MODIFIED: 10/5/2016 1:36 PM

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

DATE CREATED: 10/5/2016 1:36 PM

DATE MODIFIED: 10/5/2016 1:36 PM

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

DATE CREATED: 10/5/2016 1:36 PM

DATE MODIFIED: 10/5/2016 1:36 PM

16. An example of a floating point data type is ____.

- a. int b. char
c. double d. short

ANSWER: c

POINTS: 1

Chapter 2

REFERENCES: 41
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
DATE CREATED: 10/5/2016 1:36 PM
DATE MODIFIED: 10/5/2016 1:36 PM

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
DATE CREATED: 10/5/2016 1:36 PM
DATE MODIFIED: 10/5/2016 1:36 PM

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
DATE CREATED: 10/5/2016 1:36 PM
DATE MODIFIED: 10/5/2016 1:36 PM

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: False
DATE CREATED: 10/5/2016 1:36 PM
DATE MODIFIED: 10/5/2016 1:36 PM

20. The expression `static_cast<int>(9.9)` evaluates to _____.
a. 9 b. 10
c. 9.9 d. 9.0

ANSWER: a

Chapter 2

POINTS: 1
REFERENCES: 51
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
DATE CREATED: 10/5/2016 1:36 PM
DATE MODIFIED: 10/5/2016 1:36 PM

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
DATE CREATED: 10/5/2016 1:36 PM
DATE MODIFIED: 10/5/2016 1:36 PM

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
DATE CREATED: 10/5/2016 1:36 PM
DATE MODIFIED: 10/5/2016 1:36 PM

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
DATE CREATED: 10/5/2016 1:36 PM
DATE MODIFIED: 10/5/2016 1:36 PM

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

Chapter 2

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

ANSWER: b

POINTS: 1

REFERENCES: 69-70

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

DATE CREATED: 10/5/2016 1:36 PM

DATE MODIFIED: 10/5/2016 1:36 PM

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

HAS VARIABLES: False

DATE CREATED: 10/5/2016 1:36 PM

DATE MODIFIED: 10/5/2016 1:36 PM

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

HAS VARIABLES: False

DATE CREATED: 10/5/2016 1:36 PM

DATE MODIFIED: 10/5/2016 1:36 PM

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

Chapter 2

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

ANSWER: c

POINTS: 1

REFERENCES: 70-71

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

DATE CREATED: 10/5/2016 1:36 PM

DATE MODIFIED: 10/5/2016 1:36 PM

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;

ANSWER: a

POINTS: 1

REFERENCES: 70-71

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

DATE CREATED: 10/5/2016 1:36 PM

DATE MODIFIED: 10/5/2016 1:36 PM

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

ANSWER: c

POINTS: 1

REFERENCES: 72

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

DATE CREATED: 10/5/2016 1:36 PM

Chapter 2

DATE MODIFIED: 10/5/2016 1:36 PM

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*DATE CREATED:* 10/5/2016 1:36 PM*DATE MODIFIED:* 10/5/2016 1:36 PM

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*HAS VARIABLES:* False*DATE CREATED:* 10/5/2016 1:36 PM*DATE MODIFIED:* 10/5/2016 1:36 PM

32. ____ are executable statements that inform the user what to do.

- a. Variables b. Prompt lines

Chapter 2

c. Named constants d. Expressions

ANSWER: b
POINTS: 1
REFERENCES: 89
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
DATE CREATED: 10/5/2016 1:36 PM
DATE MODIFIED: 10/5/2016 1:36 PM

33. The declaration `int a, b, c;` is equivalent to which of the following?

- a. `inta , b, c;` b. `int a,b,c;`
c. `int abc;` d. `int a b c;`

ANSWER: b
POINTS: 1
REFERENCES: 90
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
DATE CREATED: 10/5/2016 1:36 PM
DATE MODIFIED: 10/5/2016 1:36 PM

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
DATE CREATED: 10/5/2016 1:36 PM
DATE MODIFIED: 10/5/2016 1:36 PM

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`

ANSWER: d
POINTS: 1
REFERENCES: 93
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
DATE CREATED: 10/5/2016 1:36 PM
DATE MODIFIED: 10/5/2016 1:36 PM

Chapter 2

36. _____ is the process of planning and creating a program.

ANSWER: Programming
programming

POINTS: 1

REFERENCES: 28

QUESTION TYPE: Completion

HAS VARIABLES: False

DATE CREATED: 10/5/2016 1:36 PM

DATE MODIFIED: 10/5/2016 1:36 PM

37. A(n) _____ is a memory location whose contents can be changed.

ANSWER: variable

POINTS: 1

REFERENCES: 33

QUESTION TYPE: Completion

HAS VARIABLES: False

DATE CREATED: 10/5/2016 1:36 PM

DATE MODIFIED: 10/5/2016 1:36 PM

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

HAS VARIABLES: False

DATE CREATED: 10/5/2016 1:36 PM

DATE MODIFIED: 10/5/2016 1:36 PM

39. _____ functions are those that have already been written and are provided as part of the system.

ANSWER: Predefined
predefined
Standard
standard

POINTS: 1

REFERENCES: 33-34

QUESTION TYPE: Completion

HAS VARIABLES: False

DATE CREATED: 10/5/2016 1:36 PM

DATE MODIFIED: 10/5/2016 1:36 PM

Chapter 2

40. _____ rules determine the meaning of instructions.

ANSWER: Semantic
semantic

POINTS: 1

REFERENCES: 34

QUESTION TYPE: Completion

HAS VARIABLES: False

DATE CREATED: 10/5/2016 1:36 PM

DATE MODIFIED: 10/5/2016 1:36 PM

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

DATE CREATED: 10/5/2016 1:36 PM

DATE MODIFIED: 10/5/2016 1:36 PM

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

DATE CREATED: 10/5/2016 1:36 PM

DATE MODIFIED: 10/5/2016 1:36 PM

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

ANSWER: whitespaces
whitespace
white spaces
white space

POINTS: 1

REFERENCES: 37

QUESTION TYPE: Completion

HAS VARIABLES: False

DATE CREATED: 10/5/2016 1:36 PM

DATE MODIFIED: 10/5/2016 1:36 PM

44. The _____ type is C++ 's method for allowing programmers to create their own simple data types.

Chapter 2

ANSWER: enumeration

POINTS: 1

REFERENCES: 38

QUESTION TYPE: Completion

HAS VARIABLES: False

DATE CREATED: 10/5/2016 1:36 PM

DATE MODIFIED: 10/5/2016 1:36 PM

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

DATE CREATED: 10/5/2016 1:36 PM

DATE MODIFIED: 10/5/2016 1:36 PM

46. The maximum number of significant digits is called the _____.

ANSWER: precision

POINTS: 1

REFERENCES: 42

QUESTION TYPE: Completion

HAS VARIABLES: False

DATE CREATED: 10/5/2016 1:36 PM

DATE MODIFIED: 10/5/2016 1:36 PM

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

HAS VARIABLES: False

DATE CREATED: 10/5/2016 1:36 PM

DATE MODIFIED: 10/5/2016 1:36 PM

48. A(n) _____ is a sequence of zero or more characters.

ANSWER: string

POINTS: 1

REFERENCES: 53

QUESTION TYPE: Completion

HAS VARIABLES: False

DATE CREATED: 10/5/2016 1:36 PM

Chapter 2

DATE MODIFIED: 10/5/2016 1:36 PM

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

HAS VARIABLES: False

DATE CREATED: 10/5/2016 1:36 PM

DATE MODIFIED: 10/5/2016 1:36 PM

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

DATE CREATED: 10/5/2016 1:36 PM

DATE MODIFIED: 10/5/2016 1:36 PM