Home Exercícios de múltipla escolha (em Inglês) Exercícios de múltipla escolha (em Inglês)

Capitulo 5

This activity contains 31 questions.



Section 5.2 Essentials of Counter-Controlled Repetition

5.2 Q1: Which of the following does counter-controlled repetition require?

- An initial value.
- Ounter-controlled repetition requires all of the above.
- An increment or decrement by which the control variable is modified each time through the loop.
- A condition that tests for the final value.

2.

5.2 Q2: The statement

```
while (--counter >= 1)
counter % 2 ? cout << "A" : cout << "B";
cannot be rewritten as:
     while (--counter >= 1)
        if (counter % 2)
          cout << "A";
        else
           cout << "B";.
     while ( --counter >= 1 )
        counter % 2 == 0 ? cout << "B" : cout << "A";.
     while (counter >= 1)
        if (counter % 2)
           cout << "A";
        else
          cout << "B";.
        --counter;
     while ( counter > 1 )
     {
        --counter;
```

```
if ( counter % 2 )
        cout << "A";
else
        cout << "B";
}.</pre>
```

- 3. 5.2 Q3: Which of the following is a bad programming practice?
 - Indenting the statements in the body of each control structure.
 - Placing vertical spacing above and below control structures.
 - Using floating-point values for counters in counter-controlled repetition.
 - Nesting multiple repetition structures one within another.
- 4. Section 5.3 for Repetition Statement
 - 5.3 Q1: If a variable is declared in the initialization expression of a for structure, then:
 - The scope of the variable is restricted to that particular for loop.
 - It is automatically reinitialized to zero once the loop is finished.
 - It retains its final value after the loop is finished.
 - It can not be used in any structures that are nested in that for structure.
- 5.3 Q2: Which of the following is not true?
 - A for loop can always be used to replace a while loop, and vice versa.
 - The initialization and increment expressions can be comma-separated lists.
 - The three expressions in the for structure are optional.
 - You must declare the control variable outside of the for loop.
- 6. 5.3 Q3: Consider the execution of the following for loop

```
for (int x = 1; x < 5; increment)

cout << x + 1 << endl;
```

If the last value printed is 5, which of the following might have been used for increment?

	\bigcirc \times += 1.
	Any of the above.
	○ a. x++.
	O ++x.
7.	Section 5.4 Examples Using the for Statement
	5.4 Q1: Which of the following for headers is not valid?
	for (int $i = 0$: $i < 10$;).
	of for (int $i = 0$; $i < 10$; $i++$).
	for (int $i = 0$; int $j = 5$; $i + +$).
	$\bigcap int i = 0;$
	for $(; i < 10; i++)$.
4	
8.	A Caution about Using Type double for Monetary Amounts
	5.4 Q2: float and double variables should be used:
	To perform monetary calculations.
	To store true/false values.
	As counters.
	 As imprecise representations of decimal numbers.
9.	Using Stream Manipulators to Format Numeric Output
	5.4 Q3: Which of the following is a parameterized stream
	manipulator used to format output?
	O setw.
	○ left. ○ right.
	○ fixed.
) incu.
10.	Section 5.5 do while Repetition Statement
	5.5 Q1: If a do while structure is used:
	Counter-controlled repetition is not possible.
	The body of the loop will execute at least once.
	An infinite loop will not take place.

An off-by-one error will not occur.

11. 5.5 Q2: What will the following program segment do?

```
int counter = 1;
do {
   cout << counter << " ";
} while ( ++counter <= 10 );

   Print the numbers 1 through 10.
   Cause a syntax error.</pre>
```

- Print the numbers 1 through 9.
- Print the numbers 1 through 11.
- 12. Section 5.6 switch Multiple-Selection Statement
 - 5.6 Q1: A switch statement should be used:
 - To replace all if and if...else statements.
 - As a multiple-selection structure.
 - As a single-selection structure.
 - As a double-selection structure.
- 13. 5.6 Q2: In a switch structure:
 - Multiple actions do not need to be enclosed in braces.
 - A break is required after each case.
 - A break is required after the default case.
 - A default case is required.
- 5.6 Q3: Which of the following is correct when labeling cases in a switch structure?
 - case1.
 - Case 1.
 - case 1.
 - Case1.

15.	5.6 Q4: switch can be used to test:
	string constants.float constants.int constants.all types of constants.
16.	 5.6 Q5: Which of the following data types can be used to represent integers? All of the above. char. short. long.
17.	Section 5.7 break and continue Statements
	5.7 Q1: Which of the following is false?
	 continue statements skip the remaining statements in current iteration of the body of the loop in which they are embedded. continue and break statements may be embedded within all C++ structures.
	break statements exit from the loop in which they are embedded.
	break and continue statements alter the flow of control.
18.	5.7 Q2: Which of the following is false?
	 You should always try to write the fastest, smallest code possible before attempting to make it simple and correct.
	 Many programmers feel that break and continue violate structured programming.
	The effects of break and continue statements can be achieved by structured programming techniques.
	 break and continue statements can perform faster than their corresponding structured techniques.

19. Section 5.8 Logical Operators

5.8 Q1: In C++, the condition (4 > y > 1):

	Ones not evaluate correctly and should not be replaced by ($4 > y \& y > 1$). Evaluates correctly and could not be replaced by ($4 > y \& y > 1$).
	O Does not evaluate correctly and should be replaced by ($4 > y \&\& y > 1$).
	\bigcirc Evaluates correctly and could be replaced by (4 > y && y > 1).
	5 9 O2, The OB (II) energing
20.	5.8 Q2: The OR () operator:
	Stops evaluation upon finding one condition to be true.
	Is a ternary operator.Associates from right to left.
	Has higher precedence than the AND (&&) operator.
	(, . ,
21	5.8 Q3: An operator that associates from right to left is:
	0 0.
	○ !=.
	O ?:.
22.	5.8 Q4: The expression if (num != 65) cannot be replaced by:
	if (num > 65 num < 65).
	<pre>if (!(num == 65)).</pre>
	if (num – 65).
22	5.8 Q5: An example of a unary operator is:
23.	
	The % arithmetic operator.
	The = assignment operator. The ! logical operator.
	The < relational operator.

24. Section 5.9 Confusing Equality (==) and Assignment (=) Operators

5.9 Q1: Variables are also known as:

	Ivalues, and cannot be used as rvalues.
	Constant variables.
	Ivalues, but can be used as rvalues.
	rvalues, and cannot be used as Ivalues.
25.	5.9 Q2: Consider the following code, assuming that x is an int with an initial value of 12
	if(x = 6) cout << x;
	What is the output?
	O 12.
	Nothing.
	O 6.
	A syntax error is produced.
26.	5.9 Q3: Of the following, which is not a logic error?
	Using == to assign a value to a variable.
	Failing to initialize counter and total variables before the body of a loop.
	Not placing curly braces around the body of an if that contains two statements.
	Using commas instead of the two required semicolons in a for header.
27.	Section 5.10 Structured Programming Summary
	5.10 Q1: The are the
	5.10 Q1: The, and are the only three forms of control necessary.
	sequence, selection, repetition.
	break, continue, ifelse.
	switch, if, else.
	ofor, while, dowhile.
28.	5.10 Q2: Which of the following is not one of the C++ control
	structures?
	odowhile.

	switch.
	if.
	∩ main.
29.	5.10 Q3: Which of the following is not one the rules for forming structured programs?
	Any action state can be replaced by any control statement.
	Begin with the "simplest activity diagram."
	Any transition arrow can be reversed.
	Any action state can be replaced by two action states in sequence
	G, action court am 22 . spinoca 2, and action courts in 224 action
30.	Section 5.11 (Optional) Software Engineering Case Study: Identifying Objects' States and Activities in the ATM System
	5.11 Q1: Which of the following is not a part of a UML state diagram?
	Rounded rectangles representing states.
	 Arrows with accompanying event description text representing transitions.
	A solid circle indicating the initial state.
	Fractions beside each state indicating the likelihood of entering that state.
31.	5.11 Q2: An activity diagram for modeling the actions involved in executing a balance inquiry transaction using the BalanceInquiry object should not include:
	 Displaying the user's balance information on the screen.
	Retrieving the user's balance information from the database of accounts.
	All of the above actions should be modeled in this activity diagram.
	Receiving the user's main menu input indicating a desire to inquire the amount of his or her balance.
	Clear Answers / Start Over Submit Answers for Grading

Answer choices in this exercise appear in a different order each time the page is loaded.



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