Home 📂 Exercícios de múltipla escolha (em Inglês) 📂 Capitulo 4

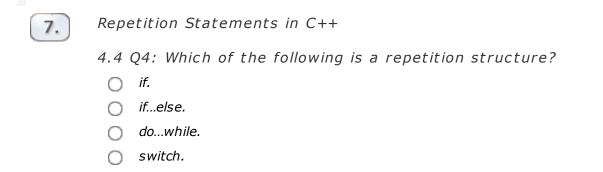
Capitulo 4

This activity contains 30 questions.

1.	Section 4.2 Algorithms
	 4.2 Q1: Specifying the order in which statements are to be executed in a computer program is called: Transfer of control. Program control. An algorithm. Pseudocode.
2.	 4.3 Q1: Which of the following is true of a pseudocode program? All of the above are false. They include declarations and all types of statements. They are executed by the computer. They help the programmer "think out" a program.
3.	 4.3 Q2: Pseudocode does not include: Declarations. Input/output. Algorithms. Control structures.
4.	Section 4.4 Control Structures 4.4 Q1: Which of the following encompasses the other three? Repetition structure. Control structure. Selection structure. Sequence structure.

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	4.4 Q2: In an activity diagram for an algorithm, what does circle surrounded by a hollow circle represent?			
	Action state.			
	Transition.			
	Initial state.			
	Final state.			
6.	Selection Statements in C++			
	4.4 O3: Which of the following is a double-selection statement			

6.	Selection Statements in C++		
	4.4 Q3: Which of the following is a double-selection statement?		
	if.		
	ifelse.		
	odowhile.		
	o switch.		



8. Section 4.5 if Selection Statements

4.5 Q1: If grade has the value of 60, what will the following code print?

\circ	cout << "Passed";.	
\circ	c. Passed.	
\circ	nothing.	
\bigcirc	60.	

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9.	4.5 Q2: The data type bool:	
	Can take on any expression as a value.	
	Can take on values true and false.	
	Can only be used in a selection statement.	
	Can take on values -1, 0 or 1.	
10.	Section 4.6 ifelse Double-Selection Statement	
	Conditional Operator (?:)	
	4.6 Q1: The conditional operator (?:):	
	Accepts two operands.	
	Is a unary operator.	
	Associates from left to right.	
	Is the only ternary operator in C++.	
11.	4.6 Q2: Which of the following does not perform the following task: print correct if answer is equal to 7 and incorrect if answer is not equal to 7?	
	0	
	<pre>If (answer == 7) cout << "correct";</pre>	
	else	
	<pre>cout << "incorrect";</pre>	
	<pre>answer == 7 ? cout << "correct" : cout << "incorrect";</pre>	
	<pre>cout << answer == 7 ? "correct" : "incorrect";</pre>	
	<pre>cout << (answer == 7 ? "correct" : "incorrect");</pre>	
12.	Blocks	
	4.6 Q3: A block:	
	Must contain exactly three statements.	
	Is a compound statement.	
	Is represented by placing a semicolon (;) where a statement would normally be.	

Section 4.7 while Repetition Statement

Cannot contain declarations.

13.

4.7 Q1: What is wrong with the following while loop?

```
while (sum <= 1000)
sum = sum - 30;

There should be a semicolon after while (sum <= 1000).
sum = sum - 30 \text{ should be } sum = sum + 30 \text{ or else the loop may never end.}

Braces are required around sum = sum - 30;.
```

14. 4.7 Q2: How many times will the following loop print hello?

The parentheses should be braces.

- 0 10.
- \bigcirc 0.
- An infinite number of times.
- \bigcirc 9.

15. Section 4.8 Formulating Algorithms: Counter-Controlled Repetition

4.8 Q1: An uninitialized local variable contains:

- No value.
- A randomly assigned value.
- A value of zero.
- The value last stored in the memory location reserved for that variable.

4.8 Q2: Using a loop's counter-control variable in a calculation after the loop ends often causes a common logic error called:

- A fatal logic error.
- A syntax error.
- An off-by-one error.
- A counter exception.

17.	Section 4.9 Formulating Algorithms: Sentinel-Controlled Repetition
	 4.9 Q1: Indefinite repetition is controlled by a: Counter. Absence of a condition. Sentinel value. Non-constant condition.
19	4.9 Q2: A fatal logic error can be caused by:
10.	 An attempt to divide by zero. Not initializing variables before executing a repetition structure. Choosing a sentinel value that is also a data value. Using a counter variable in a calculation after the loop.
19.	4.9 Q3: In indefinite repetition, an input value: Should always be evaluated before being processed.
	 Can be entered, processed, and evaluated in any order. Should always be processed directly after it is entered. Should never be modified.
20.	4.9 Q4: What is the final value of x after performing the following operations?
	<pre>int x = 21; double y = 6; double z = 14; y = x / z; x = 5.5 * y;</pre>

- O 5.5.
- 0 8.25.
- O 5.
- 0 8.

4.9 Q5: Which operation does not take place in the following

21.	example?
-----	----------

int x = 21;
double y = 6;
double z = 14;
y = x / z;
x = 5.5 * y;

- Implicit conversion.
- Explicit conversion.
- Promotion.
- Truncation.
- 22. Section 4.10 Formulating Algorithms: Nested Control Statements
 - 4.10 Q1: Having a loop within a loop is known as:
 - A redundancy.
 - Nesting.
 - Doubling up.
 - Recursive.
- 4.10 Q2: To handle situations where a loop must reinitialize a variable at the beginning of each iteration, such reinitialization could be performed by:
 - A declaration inside the loop body.
 - An assignment statement before the loop body.
 - An assignment statement after the loop body.
 - A declaration after the loop body.
- 24. Section 4.11 Assignment Operators
 - 4.11 Q1: If x initially contains the value 3, which of the following sets x to 7?

 - \bigcirc x ++ 4;.
 - x += 4;.
 - x = +4;

25.	4.11 Q2: Assuming that x and y are equal to 3 and 2, respectively, after the statement x -= y executes, the values of x and y will be:
	○ x: 3; y: -1.
	x: 5; y: 3.
	x: 3; y: 5.
	O x: 1; y: 2.
4	
26.	Section 4.12 Increment and Decrement Operators
	4.12 Q1: Which of the following will not increment c by 1?
	O c++;.
	() ++c;.
	c += 1;
	c+1;
	0 0 1 1/1
27.	4.12 Q2: Assuming that x is equal to 4, which of the following statements will not result in y containing the value 5 after execution?
	$\bigcirc y = ++x;.$
	$\bigcirc y = x + + ;.$
	y = 5;.
	$\bigcirc d. \ y = x + 1.$
28.	4.12 Q3: Which of the following operations has the highest precedence?
	Assignment.
	Addition.
	Multiplication.
	O Postincrement.
29.	Section 4.13 (Optional) Software Engineering Case Study: Identifying

- Class Attributes in the ATM System
 - 4.13 Q1: Which of the following is not a piece of information that could be found in the attribute compartment of a class's rectangle in the UML?
 - The attribute's memory location.

	0	The attribute's type.
	0	The attribute's initial value.
	0	The attribute's name.
30.	4.13	Q2: A class-type attribute is best modeled by:
	0	An inheritance association.
	0	Breaking the class down into its fundamental-type components.
	0	A composition association.
	0	Encapsulating both classes in a third, larger class.
		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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