

CLA Chapter 2 Practice Quiz



C++ Institute Volunteer Program 2015-2016

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Chapter: 2	Data types, their operations and basics of flow control		
Section: 2	Computer arithmetic and arithmetic operators		
C Associate (CLA)	Chapter: 2	Section: 2	Question type: single-choice
Subject: Increment and Decrement unary operators			Question Number: 1
Question: What will be the output for the code given below?			
<pre>void main(){ int x, y; x = 10; y = x++; printf("x = %d \t", x); printf("y = %d", y); }</pre>			
A) x = 11 y = 10 B) x = 10 y = 11 C) x = 11 y = 11 D) x = 10 y = 10			

Chapter: 2	Data types, their operations and basics of flow control		
Section: 2	Computer arithmetic and arithmetic operators		
C Associate (CLA)	Chapter: 2	Section: 2	Question type: single-choice
Subject: Increment and Decrement unary operators			Question Number: 2
Question: What will be the output for the code given below?			
<pre>void main(){ int x, y; x = 10; y = ++x; printf("x = %d \t", x); printf("y = %d", y); }</pre>			
A) x = 11 y = 10 B) x = 10 y = 11 C) x = 11 y = 11 D) x = 10 y = 10			

Chapter: 2	Data types, their operations and basics of flow control		
Section: 2	Computer arithmetic and arithmetic operators		
C Associate (CLA)	Chapter: 2	Section: 2	Question type: single-choice
Subject: Increment and Decrement unary operators			Question Number: 3
Question: What will be the output for the code given below?			
<pre> void main(){ int x, y; x = 10; y = ++x; --x; y--; x = y++; y = --x; x = y++; printf("x = %d \t", x); printf("y = %d", y); } </pre>			
<p>A) x = 10 y = 9</p> <p>B) x = 9 y = 9</p> <p>C) x = 10 y = 10</p> <p>D) x = 9 y = 10</p>			

Chapter: 2	Data types, their operations and basics of flow control		
Section: 2	Computer arithmetic and arithmetic operators		
C Associate (CLA)	Chapter: 2	Section: 2	Question type: single-choice
Subject: Increment and Decrement unary operators			Question Number: 4
Question: What will be the output for the code given below?			
<pre>void main(){ int x = 10; printf("%d %d %d %d %d \n", --x, ++x, x, x++, x--); }</pre>			
<p>A) 10 11 10 9 10 B) 10 9 10 11 10 C) 10 10 10 9 10 D) 11 10 10 9 11</p>			

Chapter: 2	Data types, their operations and basics of flow control		
Section: 2	Computer arithmetic and arithmetic operators		
C Associate (CLA)	Chapter: 2	Section: 2	Question type: multiple-choice
Subject: Variable initialization			Question Number: 5
Question: Which of the following are the correct ways of variable initialization?			
<p>A) <code>int i = 10, j = 25;</code></p> <p>B) <code>float a = 1.5, b = 1.99+2.4*1.44;</code></p> <p>C) <code>char a = 65;</code></p> <p>D) <code>float b = a+3.1, a = 1.5;</code></p> <p>E) <code>float a = 1.5, b = a+3.1;</code></p> <p>F) <code>int a, b, c, d;</code> <code>a=b=c=10;</code></p> <p>G) <code>int a = b = c = d = 10;</code></p>			

Chapter: 2	Data types, their operations and basics of flow control		
Section: 3	Characters as another kind of data		
C Associate (CLA)	Chapter: 2	Section: 3	Question type: single-choice
Subject: Dealing with characters			Question Number: 6
Question: What will be the output for the code given below?			
<pre>char code = 'A'; printf("%c\t", code); printf("%d", code);</pre>			
A) A 65 B) A A C) 65 65 D) Compile time error			

Chapter: 2	Data types, their operations and basics of flow control		
Section: 3	Characters as another kind of data		
C Associate (CLA)	Chapter: 2	Section: 3	Question type: single-choice
Subject: Dealing with characters			Question Number: 7
Question: What will be the output for the code given below?			
<pre>char code = 65; printf("%c\t", code); printf("%d", code);</pre>			
<p>A) A 65</p> <p>B) A A</p> <p>C) 65 65</p> <p>D) Compile time error</p>			

Chapter: 2	Data types, their operations and basics of flow control		
Section: 3	Characters as another kind of data		
C Associate (CLA)	Chapter: 2	Section: 3	Question type: single-choice
Subject: Dealing with characters			Question Number: 8
Question: What will be the output for the code given below?			
<pre>char code = '65'; printf("%c\t", code); printf("%d", code);</pre>			
<p>A) A 65</p> <p>B) A A</p> <p>C) 65 65</p> <p>D) Compile time error</p>			

Chapter: 2	Data types, their operations and basics of flow control		
Section: 3	Characters as another kind of data		
C Associate (CLA)	Chapter: 2	Section: 3	Question type: single-choice
Subject: Dealing with characters			Question Number: 9
Question: What will be the output for the code given below?			
<pre>char code = A; printf("%c\t", code); printf("%d", code);</pre>			
<p>A) A 65</p> <p>B) A A</p> <p>C) 65 65</p> <p>D) Compile time error</p>			

Chapter: 2	Data types, their operations and basics of flow control		
Section: 2	Computer arithmetic and arithmetic operators		
C Associate (CLA)	Chapter: 2	Section: 2	Question type: single-choice
Subject: Increment and Decrement unary operators			Question Number: 12
Question: What will be output if you will compile and execute the following c code?			
<pre>#include<stdio.h> int main(){ int a=5; int b=10; { int a=2; a++; b++; } printf("%d %d", a, b); return 0; }</pre>			
A) 5 10 B) 6 11 C) 5 11 D) 6 10 E) Compiler error			

Chapter: 2	Data types, their operations and basics of flow control		
Section: 2	Computer arithmetic and arithmetic operators		
C Associate (CLA)	Chapter: 2	Section: 2	Question type: single-choice
Subject: Arithmetic operators			Question Number: 13
Question: What will be output if you will compile and execute the following C code?			
<pre>#include<stdio.h> int main(){ int a=-20; int b=-3; printf("%d",a%b); return 0; }</pre>			
A) 2 B) -2 C) 18 D) -18 E) Compiler error			

Chapter: 2	Data types, their operations and basics of flow control		
Section: 2	Computer arithmetic and arithmetic operators		
C Associate (CLA)	Chapter: 2	Section: 2	Question type: single-choice
Subject: Constant variables			Question Number: 14
Question: What will be output if you will compile and execute the following C code?			
<pre>#include<stdio.h> int main(){ const int i=5; i++; printf("%d", i); return 0; }</pre>			
A) 5 B) 6 C) 0 D) Compiler error E) None of these			

Chapter: 2	Data types, their operations and basics of flow control		
Section: 2	Computer arithmetic and arithmetic operators		
C Associate (CLA)	Chapter: 2	Section: 2	Question type: single-choice
Subject: Computer arithmetic and arithmetic operators			Question Number: 15
Question: What will be output if you will compile and execute the following C code?			
<pre>#include<stdio.h> int main(){ float f; f=3/2; printf("%f", f); return 0; }</pre>			
A) 1.5 B) 1.500000 C) 1.000000 D) Compiler error E) None of these			

Chapter: 2	Data types, their operations and basics of flow control		
Section: 3	Characters as another kind of data		
C Associate (CLA)	Chapter: 2	Section: 3	Question type: single-choice
Subject: Special Characters in C			Question Number: 16
Question: The "\n" character does which of the following operations?			
<ul style="list-style-type: none"> A) Double line spacing B) Character deletion C) Character backspace D) Places cursor om the next line 			

Chapter: 2	Data types, their operations and basics of flow control		
Section: 2	Computer arithmetic and arithmetic operators		
C Associate (CLA)	Chapter: 2	Section: 2	Question type: single-choice
Subject: Operators in C			Question Number: 17
Question: Which arithmetic operator in C returns the integer remainder of the result of dividing its first operand by its second?			
A) % B) / C) \ D) *			

ANSWER KEY

Correct answers:

Q1 – A

Explanation: no explanation

Correct answers:

Q2 – C

Explanation: no explanation

Correct answers:

Q3 – D

Explanation:

statement	value of x	value of y
y = ++x	11	11
--x	10	11
y--	10	10
x=y++	10	11
y--x	9	9
x=y++	9	10

Correct answers:

Q4 – A

Explanation: The output will be determined from right of printf statement but will be printed from left.

Correct answers:

Q5 – A, B, C, E, F

Explanation: no explanation

Correct answers:

Q6 – A

Explanation: no explanation

Correct answers:

Q7 – A

Explanation: no explanation

Correct answers:

Q8 – D

Explanation: A character variable can store only one character at a time.

Correct answers:

Q9 – D

Explanation: no explanation

Correct answers:

Q10 – B

Explanation: no explanation

Correct answers:

Q11 – C

Explanation: no explanation

Correct answers:

Q12 – C

Explanation: Default storage class of local variable is auto. Scope and visibility of auto variable is within the block in which it has declared. In C, if there are two variables of the same name then we can access only local variable. Hence inside the inner block variable a is local variable which has declared and defined inside that block. When control comes out of the inner block local variable a became dead.

Correct answers:

Q13 – B

Explanation: Sign of resultant of modular division depends upon only the sign of first operand.

Correct answers:

Q14 – D

Explanation: We cannot modify the const variable by using increment operator.

Correct answers:

Q15 – C

Explanation: In the following expression:

$f=3/2$ both 3 and 2 are integer constant hence its result will also be an integer constant i.e. 1.

Correct answers:

Q16 - D

Explanation:

Correct answers:

Q17 - A

Explanation: