

CPA Chapter 2 Practice Quiz



C++ Institute Volunteer Program 2015

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| AUTHOR'S BIO: | I am a Final year student of Amity University India. I am doing my Engineering in BTECH CSE.I love to learn new languages. My hobbies are playing keyboard, making music, animation. | |

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| Chapter: [2] | Advanced flow control and data aggregates | | |
| Section:[8] | Not only ints | | |
| C++ Certified Associate Programmer (CPA) | Chapter: [2] | Section:[8] | Question type[Multiple-choice] |
| Subject:[Macros] | | | Question Number: [1] |
| Question: What is the output of the following code ? | | | |
| <pre>#include<iostream> int main() { int __TIME__ = 5; std::cout << __TIME__; } </pre> | | | |
| <p>Answers:</p> <ul style="list-style-type: none"> A. 5 . B. Error. C. Current Time D. Garbage Value | | | |

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| Chapter: [2] | Advanced flow control and data aggregates | | |
| Section:[1] | If and else – the more powerful conditional instruction | | |
| C++ Certified Associate Programmer (CPA) | Chapter: [2] | Section:[1] | Question type: [Multiple-choice] |
| Subject:[Or and And condition in if statement] | | | Question Number: [2] |
| Question: What happens in the following code snippet? | | | |
| <pre> { int i = 4; if ((i == 3) && (i / (i - 4) == 0)) //divide i by i - 4 that is i / 0 std::cout << "OK"; std::cout << "AB"; } </pre> | | | |
| <p>Answers:</p> <ul style="list-style-type: none"> A. AB. B. OK . C. Program exits with error. | | | |

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| Chapter: [2] | Advanced flow control and data aggregate | | |
| Section:[10] | Structures – why do we need them? | | |
| C++ Certified Associate Programmer (CPA) | Chapter: [2] | Section:[10] | Question type: [Multiple-choice] |
| Subject:[Unions] | | | Question Number: [3] |
| Question: What is the output of the following snippet? | | | |
| <pre>#include<iostream> union _uni { int i; int j; int k; }; int main() { _uni uno; uno.i = 4; uno.j = 5; uno.k = 6; std::cout << uno.i<<uno.j<< uno.k; } </pre> | | | |
| <p>Answers:</p> <ul style="list-style-type: none"> A. 4 5 6 B. Error cant access variables i ,j,k. C. 6 6 6. D. 6 5 4. | | | |

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| Chapter: [2] | Advanced flow control and data aggregate | | |
| Section:[4] | Bool's algebra and computer logic | | |
| C++ Certified Associate Programmer (CPA) | Chapter: [2] | Section:[4] | Question type: [Multiple-choice] |
| Subject:[Computer Logic] | | | Question Number: [4] |
| Question: What is the output of the following code? | | | |
| <pre>#include<iostream> int main() { int i = -4 % 2; int k = 4 % -2; int is = !(i + k); int y = is && 1; std::cout << y<<" "<<is; }</pre> | | | |
| <p>Answers:</p> <ul style="list-style-type: none"> A. 1 1 B. 0 0. C. 1 0. D. 0 1. | | | |

ANSWER KEY

Correct Answer:
Q1 – B

Explanation: - `__TIME__` is a predefined Macro

Correct answers:
Q2 - A.

Explanation: - Double ampersand `&&` employs short-circuiting behaviour. Short-circuiting just means the second operand (right hand side) is evaluated only when the result is not fully determined by the first operand (left hand side).

Correct answers:
Q3 - C.

Explanation: Members in Union share same memory.

Correct answers:
Q4 - A.

Explanation: $a=(a/b)*b+a\%b$

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AUTHOR'S BIO:

Becoming a programmer is deeply connected—the three year-long study of cybersecurity that students learn about on their first college day and do not stop thinking about until their last. It forces them to draw from all they have learned. It is my test of perseverance, creativity, and knowledge that appeared to be also, rather unexpectedly, the catalyst in my decision to study C++ programming. Vitali Kremez, CFE, CNDA, CEH, Sec+, Linux+, LPIC1, Suse CLA.

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| Chapter: 2 | Advanced flow control and data aggregates | | |
| Section: 6 | Arrays – How? | | |
| C++ Certified Programmer Associate (CPA) | Chapter: 2 | Section: 6 | Question type: Multiple-choice |
| Subject: Arrays – How? | | | Question Number: 1 |
| Question: Fill in the following blanks to declare an array of integers that has 19 elements. You should assign the value of 50 to each element using the for loop. | | | |
| <pre>int array[___]; for (int i=0; i <= ___; i++); array[___] = 50; return 0;</pre> | | | |
| Answers: A. 19; 19; 20 B. 19; 19; x C. 19; 18; i D. 19; 19; i | | | |

ANSWER KEY

Correct answer:

Q1 - C. 19; 18; i

Explanation: Chapter 2.6. “Vectors: why do you need them?” is actually 2.6.1 “Arrays – why?.” Chapter 2.9 “Arrays of arrays: multidimensional arrays” is actually “2.9.1 Not only vectors” in our self-study course.

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| Chapter: 2 | Boolean algebra and computer logic | | |
| Section: 4 | Advanced flow control and data aggregates | | |
| C++ Associate (CPA) | Chapter: 2 | Section: 4 | Question type: single-choice |
| Subject: Boolean algebra | | | Question Number: 1 |
| Question: Evaluate $!(1 \ \&\& \ !(0 \ \ 1))$. | | | |
| <p>A) True</p> <p>B) False</p> <p>C) Unevaluatable</p> | | | |

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| Chapter: 2 | Advanced flow control and data aggregates | | |
| Section: 3 | Loops | | |
| C++ Associate (CPA) | Chapter: 6 | Section: 7 | Question type: single-choice |
| Subject: Loops | | | Question Number: 2 |
| Question: Which looping process is best used when the number of iterations is known? | | | |
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| A) for B) while C) do-while D) all looping processes require that the iteration be known | | | |

ANSWER KEY

Correct answers:
Q1 - A

Explanation: Any non-zero number means true and zero means false.

Correct answers:
Q2 - A

Explanation: no explanation