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| **Grade Details - All Questions** |

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| |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | Question 1. | Question : | The expression 7 % 2 evaluates to \_\_\_\_\_\_\_\_. | | | |  |  |  |  | | --- | --- | --- | --- | |  | Student Answer: | CORRECT | A) 1 | |  |  |  | B) 3 | |  |  |  | C) 3.5 | |  |  |  | D) 7.2 | |  |  |  | E)  14 | |  | | | | | | |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | |  | Points Received: | **1 of 1** | |  | Comments: |  | | |  |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | Question 2. | Question : | The expression 7 / 2 evaluates to \_\_\_\_\_\_\_\_. | | | |  |  |  |  | | --- | --- | --- | --- | |  | Student Answer: |  | A) 1 | |  |  | CORRECT | B) 3 | |  |  |  | C) 3.5 | |  |  |  | D) 7.2 | |  |  |  | E) 14 | |  | | | | | | |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | |  | Points Received: | **1 of 1** | |  | Comments: |  | | |  |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | Question 3. | Question : | What does the following C++ expression evaluate to?      6  -   6  /  3  +  3 | | | |  |  |  |  | | --- | --- | --- | --- | |  | Student Answer: |  | A)  0 | |  |  |  | B)  1 | |  |  |  | C)  3 | |  |  | CORRECT | D)  7 | |  |  |  | E) None of the above | |  | | | | | | |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | |  | Points Received: | **1 of 1** | |  | Comments: |  | | |  |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | Question 4. | Question : | Which of the following expressions will evaluate to 2.5? | | | |  |  |  |  | | --- | --- | --- | --- | |  | Student Answer: |  | A) static\_cast<double>(5 / 2) | |  |  |  | B) static\_cast<double>(5) / 2 | |  |  |  | C) 5 / static\_cast<double>(2) | |  |  |  | D) All three of the above | |  |  | CORRECT | E) Both B and C, but not A | |  | | | | | | |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | |  | Points Received: | **0** | |  | Comments: |  | | |  |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | Question 5. | Question : | Which of the following statements doubles the value stored in answer? | | | |  |  |  |  | | --- | --- | --- | --- | |  | Student Answer: |  | A) answer += 2; | |  |  |  | B) answer \*= 2; | |  |  |  | C) answer = answer \* 2; | |  |  |  | D) All three of the above | |  |  | CORRECT | E) Both B and C, but not A | |  | | | | | | |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | |  | Points Received: | **1 of 1** | |  | Comments: |  | | |  |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | Question 6. | Question : | Which of the following will allow an entire line of text to be read into a string object, even if it contains embedded blanks? | | | |  |  |  |  | | --- | --- | --- | --- | |  | Student Answer: | CORRECT | A) getline() | |  |  |  | B) cin >> | |  |  |  | C) cin.get() | |  |  |  | D) cin.ignore() | |  |  |  | E) both A and B | |  | | | | | | |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | |  | Points Received: | **1 of 1** | |  | Comments: |  | | |  |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | Question 7. | Question : | Consider the following program and answer the questions below  #include<iostream> using namespace std;  int main() {     const int CAL\_PER\_SERVING=300, COOKIES\_PER\_SERVING=4;    int cookies;    double caloriesConsumed;        cout<<"How many cookies did you eat? ";    cin>>cookies;        caloriesConsumed = (cookies/COOKIES\_PER\_SERVING )\*CAL\_PER\_SERVING;     cout<<"Caloried Consumed = "<<caloriesConsumed<<endl;        return 0;   }  a) [1.5] What is the output of the above program if the input for cookies is 3?     b)[1.5] What is the output of the above program if the input is 6?      c)[1] Based on your answers to (a) and (b) above do you see any flaw in the way program is written? If so, how do we correct it? | | | |  |  |  |  | | --- | --- | --- | --- | |  | Student Answer: |  | A.) The output of the program should be 0  B.) The Output of the program should be 300  C.) The flaw in the program is it only uses the divide arithmetic function and does not account for any remainders. It should instead break down the calories into a per cookie value and multiple and sum those values instead. 300/3 = 100 calories per cookie intake. Make the per cookies caloric intake a constant and simply multiple that value for the integer that the user inputs. | |  | | | | | | |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | |  | Points Received: | **4 of 4** | |  | Comments: |  | | | |