Quiz 3 - CS 139

1 pt pts

1. Which of the following is **not** a valid assignment statement, assuming all variables have been declared and initialized with an appropriate data type?
   1. total = sum + next;
   2. keyboard.nextInt() = value;
   3. count = count + flag;
   4. rate = 10.2;

WhichCar.java:44: possible loss of precision

found : double  
 required: int  
 cost = totalCost;

1 pt

1. What is the possible cause of this error?
2. cost has not been declared
3. cost has not been initialized
4. totalCost has not been initialized
5. cost is an int and totalCost is a double

1 pt

1. On what line number in the source file does this error occur?
   1. Line 0
   2. Line 15
   3. Line 44
   4. It is impossible to tell from the error message provided

12 pts pts

1. **Evaluate the expression**: Fill in the chart below with the result of each of the Java expressions. Write **INVALID** in both boxes if there is an invalid expression (one that will not compile). All decimal calculations should be carried out to 2 places only. **You may not use a calculator.**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Expression** | **Data Type of Result** | **Result** |
|  | 69 % 2 |  |  |
|  | (double) 79 / 2 |  |  |
|  | (6.5 / 5) |  |  |
|  | (9 / 2) \* 3.0 |  |  |
|  | 10 + 8 + “ equals “ + 11 + 7 |  |  |
|  | (double)(79 / 2) |  |  |

1. Declare a String variable named state. Then initialize the variable so it references an object with the string “Virginia”.

1 pt

1. Do the following statements compute the average of double variables a, b, and c? Why or why not? Explain

2 pt

**double average;**

**average = a + b + c / 3.0;**

1 pt

1. Which of the following assignments are valid, given that the following variables are declared with the associated type (NOTE: these are not declaration statements):

**int cost, double taxRate, float interestRate, long count**

1. interestRate = taxRate;
2. cost = taxRate;
3. count = cost;
4. cost = count;
5. Enclosing a group of statements inside a set of braces creates a

1 pt

1. block of statements
2. boolean expression
3. loop
4. Nothing, it is just for readability