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| **Skill 19.1 Exercise 1** | |
| Consider the following partial class declaration  public class SomeClass{  public int myA;  public int myB;  public int myC;  public int getA(){ return myA; }  public void setB(int value){ myB = value; }  }  The following declarations appear in another class. For each declaration indicate whether or not it will compile without error. If the declaration does not compile indicate why.  SomeClass obj = new SomeClass(); | |
| int x = obj.getA(); |  |
| int x;  obj.getA(x); |  |
| int x = obj.myA; |  |
| double x = obj.getA(); |  |
| int x = getA(obj); |  |
| int x = setB(5); |  |
| System.out.println(obj.setB(5)); |  |

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| **Skill 19.1 Exercise 1** |
| The Element class below describes elements on the periodic table. When an element is created it is assigned the appropriate symbol and atomic number.  (a) Create instance variables for symbol, atomic number, and mass  (b) Write a constructor which accepts two parameters and initializes the symbol and atomic number for the element  (c) Write getter methods for the symbol and atomic number  (d) Write a setter method called setIsotope which sets the mass of the element |
| public class Element{    } |

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| **Skill 19.3 Exercise 1** | |
| Consider the following class declarations  public class Student{  private String myName;  private int myAge;  public Student(){ /\* implementation not shown \*/ }  public Student(String name, int age){ /\* implementation not shown \*/ }  }  Which of the following will compile without error? For those that do no compile, indicate why. | |
| Student a = new Student(); |  |
| Student b = new Student(“Juan”, 15); |  |
| Student c = new Student(“Juan”, “15”); |  |
| Student d = new Student(15, “Juan”); |  |

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| **Skill 19.3 Exercise 2** | |
| Consider the following class declarations  public class SumNums{  private int num1;  private int num2;  public SumNums(int a, int b){  num1 = a;  num2 = b;  }  public int sum2(){  return num1 + num2;  }  public int sum2(int a, int b){  return a + b;  }  }  Which of the following will compile without error? For those that do no compile, indicate why. | |
| SumNums s = new SumNums(1, 2);  s.sum2(5.0, 3.0); |  |
| SumNums s = new SumNums(1, 2);  int i = s.sum2(); |  |
| SumNums s = new SumNums(1, 2);  double d = s.sum2(); |  |