

06 Quiz 1 - ARG

1. Select the four (4) statements that can be inserted at line n1. (3 pts. each)

employee.salary = 50000;
director.salary = 80000;
employee.budget = 20000;
manager.budget = 100000;
manager.stockOptions = 500;
director.stockOptions = 1000;

```
public class Employee {  
    public int salary;  
}  
public class Manager extends Employee {  
    public int budget;  
}  
public class Director extends Manager {  
    public int stockOptions;  
}  
    public static void main(String[ ] args) {  
        Employee employee = new Employee();  
        Manager manager = new Manager();  
        Director director = new Director();  
        //line n1  
    }  
}
```

**Property of STI*

IT1908

Weeks 8-9

4 statements that can be inserted at line n1

employee.salary = 50000;

director.salary = 80000;

manager.budget = 100000;

director.stockOptions = 1000;

Would not run

employee.budget = 20000;

- Employee does not have a budget attribute; budget is only in Manager and its subclasses.

manager.stockOptions = 500;

- Manager does not have stockOptions; it is only defined in Director.

2. Will the code compile? If yes, determine the output. If no, state why. (3 pts.)

```
class Pet {  
    public Pet(int age) {  
        System.out.print("Pet");  
    }  
}  
  
public class Cat extends Pet {  
    public Cat() {  
        System.out.print("Cat");  
    }  
    public static void main(String[ ] args) {  
        new Pet(5);  
    }  
}
```

The code will not compile because the Cat class's constructor implicitly calls the Pet class's no-argument constructor (super constructor) at the beginning, but the Pet class does not have a no-argument constructor defined; it only has a constructor that takes an int age parameter