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**Quick Quiz #1**

***class ClassA {***

***protected int value;***

***public ClassA() { }***

***public ClassA(int val) { value = val; }***

***public void print() {***

***System.out.println("Class A: value = " + value);***

***}***

***}***

***class ClassB extends ClassA {***

***protected int value;***

***public ClassB() { }***

***public ClassB(int val) {***

***super.value = val – 1;***

***value = val;***

***}***

***public void print() {***

***super.print();***

***System.out.println("Class B: value = " + value);***

***}***

***}***

***final class ClassC extends ClassB {***

***private int value;***

***public ClassC() { }***

***public ClassC(int val) {***

***super.value = val – 1;***

***value = val;***

***}***

***public void print() {***

***super.print();***

***System.out.println("Class C: value = " + value);***

***}***

***}***

***public class ex {***

***public static void main(String[] args) {***

***ClassA objA = new ClassA(123);***

***ClassB objB = new ClassB(456);***

***ClassC objC = new ClassC(789);***

***objA.print(); System.out.println("---------");***

***objB.print(); System.out.println("---------");***

***objC.print();***

***}***

***}***

***What is the output?***

**Answer:**  Class A : value =123

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Class A : value =455

Class B : value =456

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Class A : value =0

Class B : value =788

Class C : value =789

**Quick Quiz #2**

**A**

+ m()

+ n()

**B**

+ n()

+ p()

**C**

+ m()

**D**

+ m()

+ n()

+ p()

|  |  |  |
| --- | --- | --- |
| **Code fragment (example)** | **Compilation error? Why?** | **Execution result** |
| **A a = new A();**  **a.m();** |  | **A.m** |
| **A a = new A();**  **a.k();** | **Method k() not defined in class A** |  |
| **A a = new C();**  **a.m();** |  | **C.m** |
| **B b = new A();**  **b.n();** |  | **A.n** |
| **A a = new B();**  **a.m();** | **Method m() not defined in class B** |  |
| **A a;**  **C c = new D();**  **a = c;**  **a.n();** |  | **D.n** |
| **B b = new D();**  **b.p();** |  | **D.p** |
| **C c = new C();**  **c.n();** | **Method n() not defined in class C** |  |
| **A a = new D();**  **a.p();** |  | **D.p** |