

Certification

SCJP/OCJP

Mock Inheritance

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1. Inheritance

4. Chapter: Inheritance

1. Inheritance Questions

4.1.1. Are the following declarations correct, if you knew that they are i...

Author: JavaChamp Team

Are the following declarations correct, if you knew that they are in the same package?

```
interface Bouncable{ } // line 1
interface Colorable extends Bouncable{ } // line 2
class Super implements Colorable{ } // line 3
class Sub implements Colorable extends Super { } // line 4
```

Please choose only one answer:

- Yes, the declarations are correct
- No there is a compilation error at line 2, must implements not extends
- No there is a compilation error at line 4, over implementing for interface Colorable, Super is already implementing it
- No there is a compilation error at line 4, extends should come before implements

Check the answer of this question online at QuizOver.com:

Question: [How to extend or implement in java?](#)

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4.1.2. Which of the following is true?

Author: JavaChamp Team

Which of the following is true?

Please choose all the answers that apply:

- A class can extend more than one class
- A class can extend only one class but many interfaces
- An interface can extend many interfaces
- An interface can implement many interface
- A class can extend one class and implement many interfaces

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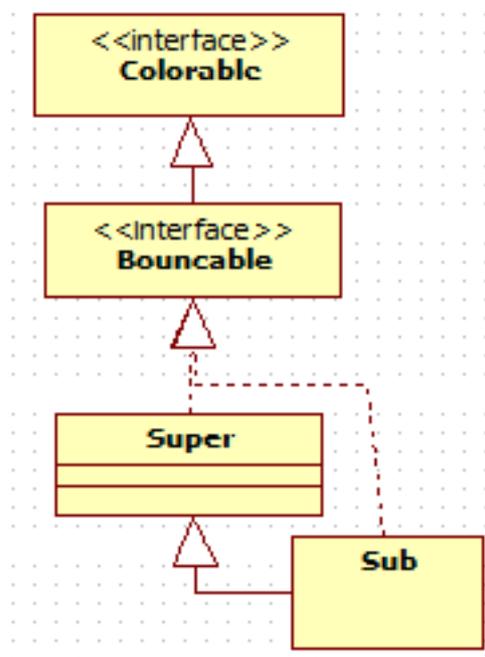
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4.1.3. Which lines will evaluate to true?

Author: Yasser Ibrahim

Which lines will evaluate to true?

```
interface Colorable { }  
interface Bouncable extends Colorable { }  
class Super implements Bouncable { }  
class Sub extends Super implements Bouncable { }  
public class Tester {  
    public static void main(String[] args) {  
        System.out.println(new Sub() instanceof Super); //line 1  
        System.out.println(new Sub() instanceof Bouncable); //line 2  
        System.out.println(new Sub() instanceof Colorable); //line 3  
        System.out.println(new Super() instanceof Sub); //line 4  
        System.out.println(new Super() instanceof Colorable); //line 5  
    }  
}
```



Please choose only one answer:

- All lines will evaluate to true
- All lines will evaluate to true and only line 4 will evaluate to false
- Only line 1 and 2 will evaluate to true

- Lines 3 and 5 will evaluate to false

Check the answer of this question online at QuizOver.com:

Question: [How to use java instanceof?](#)

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4.1.4. what is the result of compiling and running the following code?

Author: JavaChamp Team

what is the result of compiling and running the following code?

```
interface Colorable { }  
interface Bouncable extends Colorable { }  
class Super implements Bouncable { }  
class Sub extends Super implements Bouncable { }  
class Individual { }  
public class Tester {  
    public static void main(String[] args) {  
        System.out.print(new Sub() instanceof Super);  
        System.out.print(new Sub() instanceof Colorable);  
        System.out.print(new Super() instanceof Sub);  
        System.out.print(new Individual() instanceof Super);  
    }  
}
```

Please choose only one answer:

- true>true>false>false
- true>false>false>false
- Compilation error
- RuntimeException because of the print statemen

Check the answer of this question online at QuizOver.com:

Question: [how to use instanceof java?](#)

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<http://www.quizover.com/flashcards/how-to-use-instaanceof-java?pdf=3044>

Interactive Question:

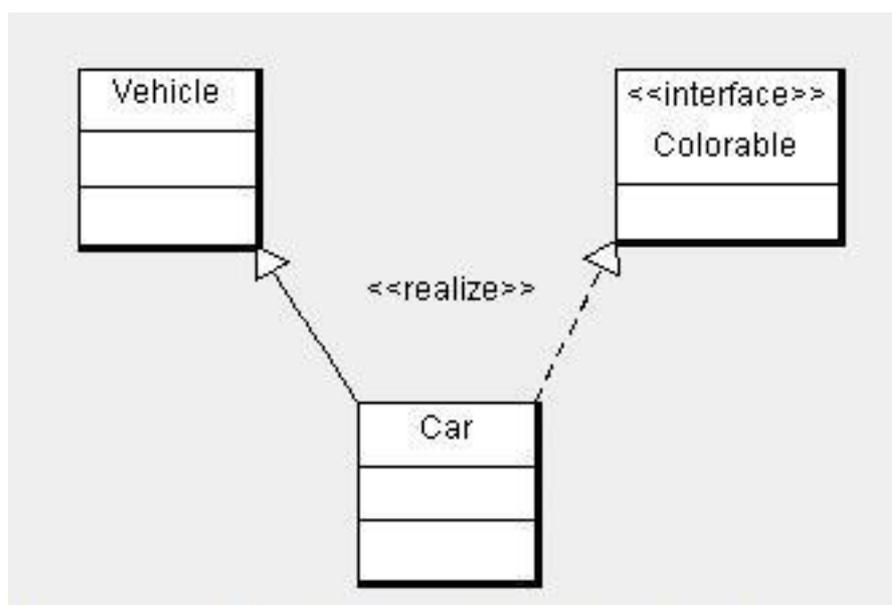
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4.1.5. Will the following code compile and if yes , what is the output?

Author: Yasser Ibrahim

Will the following code compile and if yes , what is the output?

```
interface Colorable {}  
  
class Vehicle {}  
  
class Car extends Vehicle implements Colorable {}  
  
public class Tester {  
    public static void main(String[] args) {  
  
        Vehicle a = new Car();  
        Colorable i = (Colorable) a;  
  
        Vehicle b = new Vehicle();  
        Colorable j = (Colorable) b;  
    }  
}
```



Please choose only one answer:

- The code compiles fine and produces no output
- The code compiles fine but throws a RuntimeException because of the second casting
- There is a compilation error because of the second casting
- The code compiles fine but throws a RuntimeException because of the first casting

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4.1.6. Would the following code compile and if yes , what is the output?

Author: Yasser Ibrahim

Would the following code compile and if yes , what is the output?

```
interface Colorable {}

class Vehicle {}

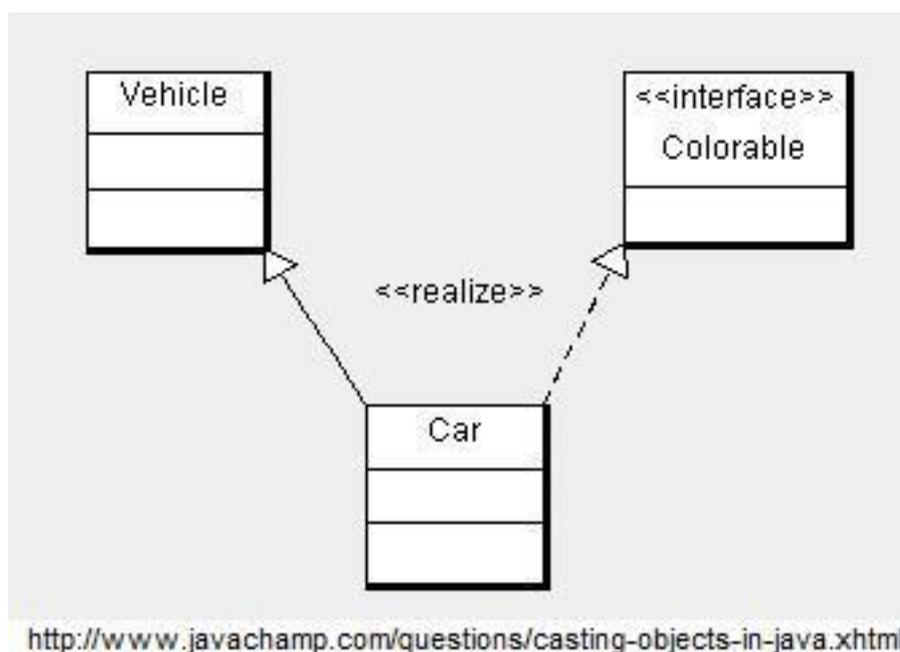
class Car extends Vehicle implements Colorable {}

public class Tester {

    public static void main(String[] args) {

        Vehicle a = new Car();
        Colorable i = (Colorable) a;

        Vehicle b = new Vehicle();
        Colorable j = (Colorable) b;
    }
}
```



Please choose only one answer:

- The code compiles fine and produces no output
- The code compiles fine but throws a RuntimeException because of the second casting
- There is a compilation error because of the second casting

Check the answer of this question online at QuizOver.com:

Question: [casting objects in java](#)

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Interactive Question:

<http://www.quizover.com/question/casting-objects-in-java?pdf=3044>

4.1.7. What is the output of compiling and running the following program?

Author: Yasser Ibrahim

What is the output of compiling and running the following program?

```
class Category {
    Category() {
        System.out.print("Category_");
    }
}

class SubCategory extends Category {
    SubCategory() {
        System.out.print("SubCategory_");
    }
}

class SubSubCategory extends SubCategory {
    SubSubCategory() {
        System.out.print("SubSubCategory_");
    }
}

public class Tester {

    public static void main(String[] args) {
        new SubSubCategory();
    }

}
```

Please choose only one answer:

- SubSubCategory_SubCategory_Category_
- SubSubCategory_
- Category_SubCategory_SubSubCategory_

Check the answer of this question online at QuizOver.com:

Question: [Order of constructor calls of java derived classes](#)

Flashcards:

<http://www.quizover.com/flashcards/order-of-constructor-calls-of-java-derived-classes?pdf=3044>

Interactive Question:

<http://www.quizover.com/question/order-of-constructor-calls-of-java-derived-classes?pdf=3044>

4.1.8. What is the result of compiling and running the following code?

Author: Yasser Ibrahim

What is the result of compiling and running the following code?

```
interface Chewable {}
interface Eatable extends Chewable {}
class Food implements Chewable {}
class Meat extends Food {}
class Gum implements Chewable {}

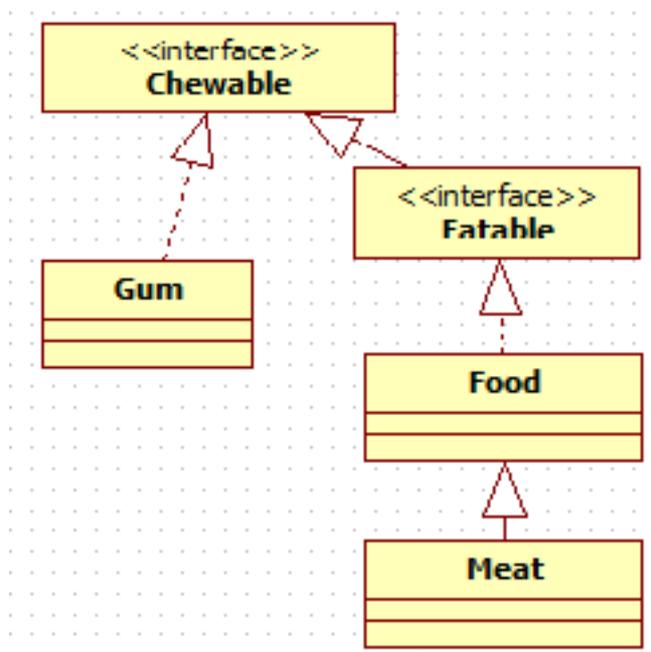
public class Tester {

    public static void main(String[] args) {

        Food food = new Food();
        Meat meat = new Meat();
        Gum gum = new Gum();

        System.out.print(food instanceof Eatable);
        System.out.print(meat instanceof Food);
        System.out.print(gum instanceof Food);
        System.out.print(gum instanceof Chewable);

    }
}
```



Please choose only one answer:

- true true true true
- true true false true

- false>true>false>true
- Compilation error

Check the answer of this question online at QuizOver.com:

Question: [using instanceof in java](#)

Flashcards:

<http://www.quizover.com/flashcards/using-instanceof-in-java?pdf=3044>

Interactive Question:

<http://www.quizover.com/question/using-instanceof-in-java?pdf=3044>

4.1.9. What is the result of compiling and running the following code?

Author: JavaChamp Team

What is the result of compiling and running the following code?

```
interface Chewable {}
interface Eatable extends Chewable {}
class Food implements Eatable {}
class Meat extends Food {}
class Gum implements Chewable {}

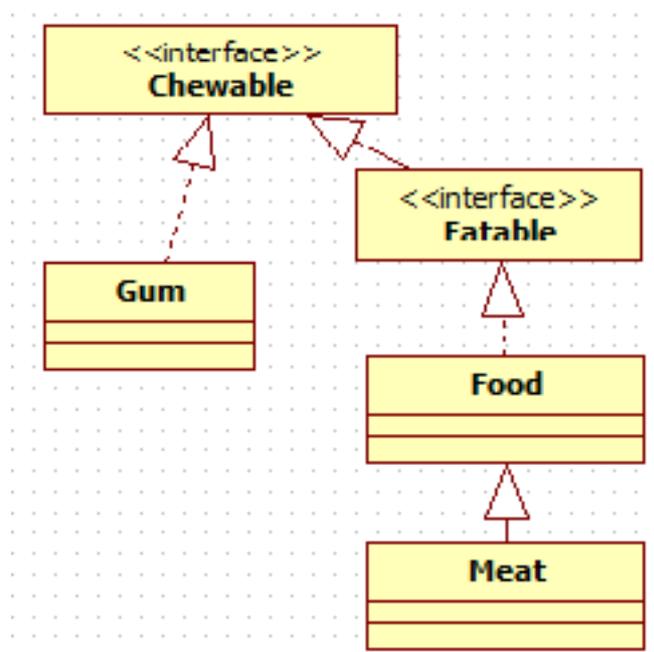
public class Tester {

    public static void main(String[] args) {

        Food food = new Food();
        Meat meat = new Meat();
        Gum gum = new Gum();

        System.out.print(food instanceof Chewable);
        System.out.print(meat instanceof Eatable);
        System.out.print(gum instanceof Eatable);
        System.out.print(gum instanceof Chewable);

    }
}
```



Please choose only one answer:

- false true false true
- true true false true

- true>true>true
- Compilation error

Check the answer of this question online at QuizOver.com:

Question: [How to use instanceof in java?](#)

Flashcards:

<http://www.quizover.com/flashcards/how-to-use-instanceof-in-java?pdf=3044>

Interactive Question:

<http://www.quizover.com/question/how-to-use-instanceof-in-java?pdf=3044>

4.1.10. Which of the following statements are correct?

Author: JavaChamp Team

Which of the following statements are correct?

Please choose all the answers that apply:

- A class can extend one class and many interfaces
- A class can implement one class and many interfaces
- A class can extend one class and implements many interfaces
- An interface can extend many classes and interfaces
- An interface can implement many classes and interfaces
- An interface can implement many interfaces
- An interface can extend many interfaces

Check the answer of this question online at QuizOver.com:

Question: [how to implement interface or extend class in java?](#)

Flashcards:

<http://www.quizover.com/flashcards/how-to-implement-interface-or-extend-class-in-java?pdf=3044>

Interactive Question:

<http://www.quizover.com/question/how-to-implement-interface-or-extend-class-in-java?pdf=3044>

4.1.11. What is the result of compiling and running the following code?

Author: Yasser Ibrahim

What is the result of compiling and running the following code?

```
class Base {  
    public void Base() {System.out.print("Base");}  
}  
  
public class Derived extends Base {  
    public Derived() {System.out.print("Derived");}  
  
    public static void main(String[] args) {  
        new Derived();  
    }  
}
```

Please choose only one answer:

- BaseDerived
- DerivedBase
- Derived
- Base
- Compilation error

Check the answer of this question online at QuizOver.com:

Question: [How to write constructor for derived class in java?](#)

Flashcards:

<http://www.quizover.com/flashcards/how-to-write-constructor-for-derived-class-in-java?pdf=3044>

Interactive Question:

<http://www.quizover.com/question/how-to-write-constructor-for-derived-class-in-java?pdf=3044>

4.1.12. What is the result of compiling and running the following code?

Author: Yasser Ibrahim

What is the result of compiling and running the following code?

```
class Base {  
  
    public Base(String n) {System.out.print("Base1");}  
    public void Base(String n) {System.out.print("Base2");}  
  
}  
  
public class Derived extends Base {  
  
    public Derived() {System.out.print("Derived");}  
  
    public static void main(String[] args) {  
        new Derived();  
    }  
}
```

Please choose only one answer:

- Base1Derived
- Base2Derived
- Derived
- Compilation error

Check the answer of this question online at QuizOver.com:

Question: [Inheritance and constructors in java](#)

Flashcards:

<http://www.quizover.com/flashcards/inheritance-and-constructors-in-java?pdf=3044>

Interactive Question:

<http://www.quizover.com/question/inheritance-and-constructors-in-java?pdf=3044>

4.1.13. What is the result of compiling and running the following code?

Author: Yasser Ibrahim

What is the result of compiling and running the following code?

```
class Base {  
    public Base() {System.out.print("Base");}  
}  
  
public class Derived extends Base {  
    public Derived() {this("JavaChamp"); System.out.print("Derived");}  
    public Derived(String s) { System.out.print(s);}  
  
    public static void main(String[] args) {  
        new Derived();  
    }  
}
```

Please choose only one answer:

- JavaChampDerived
- JavaChampBaseDerived
- BaseJavaChampDerived
- JavaChampDerivedBase
- Compilation error

Check the answer of this question online at QuizOver.com:

Question: [How to call this inside java constructor?](#)

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<http://www.quizover.com/flashcards/how-to-call-this-inside-java-constructor?pdf=3044>

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<http://www.quizover.com/question/how-to-call-this-inside-java-constructor?pdf=3044>

4.1.14. Which statement(s), inserted independently at // insert code here, ...

Author: Yasser Ibrahim

Which statement(s), inserted independently at // insert code here, will compile?

```
class Creature {
String getName() {
return "Creature";
}
}

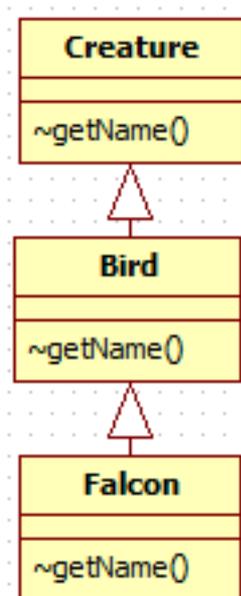
class Bird extends Creature {
String getName() {
return "Bird";
}
}

class Falcon extends Bird {
String getName() {
return "Falcon";
}
}

public class Tester {

public static Bird getIt(Creature c) {
System.out.println(c.getName());
return (Bird) c;
}

public static void main(String[] args) {
// insert code here
}
}
```



Please choose all the answers that apply:

- `getIt(new Creature());`
- `getIt(new Bird());`
- `getIt(new Falcon());`
- `getIt(new Object());`

Check the answer of this question online at QuizOver.com:

Question: [When java classCastException is thrown?](#)

Flashcards:

<http://www.quizover.com/flashcards/when-java-classcastexception-is-thrown?pdf=3044>

Interactive Question:

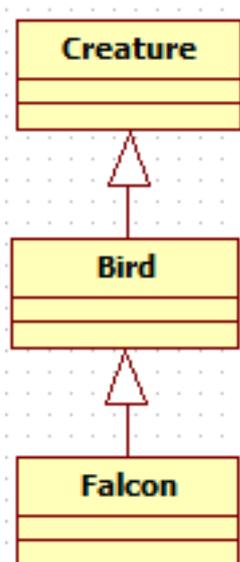
<http://www.quizover.com/question/when-java-classcastexception-is-thrown?pdf=3044>

4.1.15. The following program fails to compile, where could possibly be the...

Author: JavaChamp Team

The following program fails to compile, where could possibly be the compilation error(s)?

```
class Creature {}  
class Bird extends Creature {}  
class Falcon extends Bird {}  
public class Tester {  
    public static void main(String[] args) {  
        Creature c1 = new Creature();  
        Creature c2 = new Bird();  
  
        Bird b1 = (Bird) c1; // Line 1  
        Bird b2 = (Falcon) c2; // Line 2  
        Bird b3 = c2; // Line 3  
        Bird b4 = new Falcon(); // Line 4  
        Bird b5 = (Bird) new Creature(); // Line 5  
        Falcon f1 = b4; // Line 6  
    }  
}
```



Please choose all the answers that apply:

- Line 1
- Line 2
- Line 3
- Line 4
- Line 5

- Line 6

Check the answer of this question online at QuizOver.com:
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4.1.16. What inserted, independently at // insert code here , will compile?

Author: Yasser Ibrahim

What inserted, independently at // insert code here , will compile?

```
class Creature {
void grow() {
}
}

class Bird extends Creature {
void fly() {
}
}

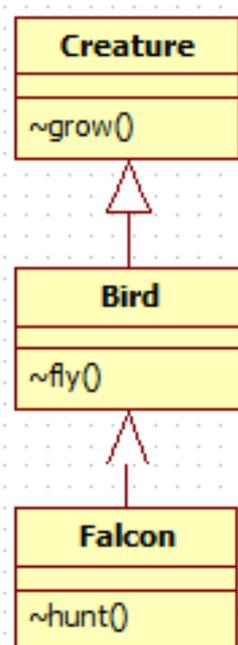
class Falcon extends Bird {
void hunt() {
}
}

public class Tester {

public static void main(String[] args) {
Creature c1 = new Bird();
Falcon c2 = new Falcon();

// insert code here

}
}
```



Please choose all the answers that apply:

- `c1.grow();`
- `c1.fly();`
- `((Bird)c1).fly();`
- `((Falcon)c1).hunt();`

Check the answer of this question online at QuizOver.com:

Question: [Casting rules in java](#)

Flashcards:

<http://www.quizover.com/flashcards/casting-rules-in-java?pdf=3044>

Interactive Question:

<http://www.quizover.com/question/casting-rules-in-java?pdf=3044>

4.1.17. What inserted, independently at // insert code here , will compile ...

Author: JavaChamp Team

What inserted, independently at // insert code here , will compile and run with no errors and exceptions?

```
class Creature {
void grow() {
}
}

class Bird extends Creature {
void fly() {
}
}

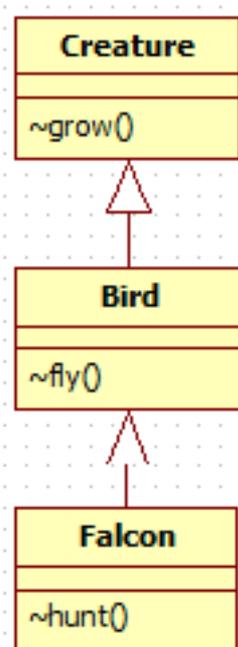
class Falcon extends Bird {
void hunt() {
}
}

public class Tester {

public static void main(String[] args) {
Creature c1 = new Bird();
Falcon c2 = new Falcon();

// insert code here

}
}
```



Please choose all the answers that apply:

- `c1.grow();`
- `c1.fly();`
- `((Bird)c1).fly();`
- `((Falcon)c1).hunt();`

Check the answer of this question online at QuizOver.com:
Question: [How to java cast?](#)

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Interactive Question:

<http://www.quizover.com/question/how-to-java-cast?pdf=3044>

4.1.18. considering AnyClassOrInterface is a class or an interface in java ...

Author: JavaChamp Team

considering AnyClassOrInterface is a class or an interface in java

what would the following statement print?

```
System.out.print(null instanceof AnyClassOrInterface );
```

Please choose only one answer:

- true
- false
- compilation error
- NullPointerException is thrown at runtime

Check the answer of this question online at QuizOver.com:

Question: [null and instanceof in java](#)

Flashcards:

<http://www.quizover.com/flashcards/null-and-instanceof-in-java?pdf=3044>

Interactive Question:

<http://www.quizover.com/question/null-and-instanceof-in-java?pdf=3044>

4.1.19. What is the output ?

Author: Nikhil Kumar

What is the output ?

```
class A{
  A(){
    System.out.println("Hello");
  }
}
class InitDemo extends A{
  A ob=new A();
  InitDemo(){
    System.out.println("hello 1");
  }
  public static void main(String... args){
    System.out.println("Hello 2");
    new InitDemo();
  }
}
```

Please choose only one answer:

- Hello 2
hello 1
Hello
Hello
- Hello 2
Hello
Hello
hello 1
- Hello 2
Hello
hello 1
Hello
- Exception is thrown at runtime.

Check the answer of this question online at QuizOver.com:

Question: [subclassing in java nikhil kumar](#)

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