SCJP/OCJP Mock Overriding and Overloading

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1. Overriding and Overloading

4. Chapter: Overriding and Overloading

1. Overriding and Overloading Questions

Author: Yasser Ibrahim

What modification is necessary to produce the following output : SubType

```
class Type {
 public Object getTypeName(){
  return "Type";
 }
}

class SubType extends Type {
 public String getTypeName(){//line 8
  return "SubType";
 }
}

public class Tester {

 public static void main(String[] args) {
  Type first = new SubType(); //line 16
  System.out.println(first.getTypeName()); //line 17
 }
}
```

Please choose only one answer:

- No modification is needed
- At line 8 change ´the return type from String to Object to be a correct overloading of getTypeName()
- At line 16 change Type to SubType
- At line 17 cast first.getTypeName() to String

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Question: Java overloading rules

Flashcards:
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http://www.quizover.com/question/java-overloading-rules?pdf=3044

4.1.2. 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 final int getNext(int i) {
  return ++i;
 }
}

public class Derived extends Base {

 public int getNext(int i) {
  return i++;
 }

 public static void main(String[] args) {
  int result = new Derived().getNext(3);
  System.out.print(result);
  result = new Base().getNext(3);
  System.out.print(result);
 }

}
```

Please choose only one answer:

- 33
- 34
- 44
- 43
- a compilation error

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Question: Can override java final method?

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4.1.3. Which statement(s), inserted independently at // insere code here, ...

Author: JavaChamp Team

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

```
class Creature {
 Creature getIt() {
  return this;
 }
}

class Bird extends Creature {
 // insere code here

}

class Falcon extends Bird {
}
```

Please choose all the answers that apply:

- Creature getIt() { return this;}
- private Falcon getIt() { return new Falcon();}
- Falcon getIt() {return this;}
- public Bird getIt() {return this;}
- Creature getIt(Creature c) {return this;}

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4.1.4. 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?

```
public class Tester {
    static void call(Long x, Long y) {
        System.out.print("Long x, Long y");
    }
    static void call(int... x) {
        System.out.print("int... x");
    }
    public static void main(String[] args) {
        int val = 3;
        call(val, val);
    }
}
```

Please choose only one answer:

- Long x, Long y
- int... x
- Compilation error
- An exception is thrown at run time

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4.1.5. 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?

```
public class Tester {

 static void call(Long x, Long y) {
  System.out.print("Long x, Long y");
 }

 static void call(int... x) {
  System.out.print("int... x");
 }

 static void call(Number x, Number y) {
  System.out.print("Number x, Number y");
 }

 public static void main(String[] args) {
  int val = 3;
  call(val, val);
 }
}
```

Please choose only one answer:

- Long x, Long y
- int... x
- Number x, Number y
- Compilation error
- An exception is thrown at run time

4.1.6. Which, inserted independently at //insert overridden call() here, w...

Author: JavaChamp Team

Which, inserted independently at //insert overridden call() here, will represent an overridden call() and compile with no error?

```
class Base {

  void call() throws IllegalArgumentException {

 }
}
public class Derived extends Base {

   //insert overridden call() here

}
```

Please choose all the answers that apply:

- public void call() throws IllegalArgumentException {}
- void call() throws IllegalArgumentException,FileNotFoundException {}
- void call() throws RuntimeException {}
- void call() throws IllegalArgumentException,RuntimeException { }
- private void call() {}

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Question: How to override method with exceptions in java?

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4.1.7. 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?

```java
class Base {
 public void method(final int x) {
  System.out.print("Base");
 }
}

public class Derived extends Base {

 public void method(int x) { // line 1
  System.out.print("Derived");
 }

 public static void main(String[] args) {
  Base b = new Derived();
  b.method(3);
 }

}
```

Please choose only one answer:

- will compile fine and wil print "Derived"
- will compile fine and wil print "Base"
- Won't compile because of line 1.Can be corrected by marking x as final,then the output will be "Derived"
- Won't compile because of line 1.Can be corrected by marking x as final,then the output will be "Base"

4.1.8. What is the o/p of the given code?

Author: Abhishek Sawant

What is the o/p of the given code?

```
class Ret{
 public long tryIt(){
   long num = 25;
   return num;    // $1
 }
}

class ReturnType extends Ret{
 public long tryIt(){
  char ch = 'a';
  long num = 50;
  return ch;   // $2
 }

 public static void main(String []args){
  Ret r = new ReturnType();      // $3
  System.out.println(r.tryIt());  // $4
 }
}
```

Please choose only one answer:

- 25
- 50
- Compilation Error at $2
- Compilation Error at $3
- Runtime Exception at $4
- None of the above

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Question: valid return types in overriding in java

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4.1.9. o/p of this program is 35. Which method executes, ; whether it is m...

Author: Abhishek Sawant

o/p of this program is 35. Which method executes, ; whether it is method Overloading or method Overriding?

```
class Basel{
   public int doSum(short a, short b){  // #1
    return(a+b);
    }
}


public class DerivedI extends Basel{
   public int doSum(int a,short b){ // #2
    return(a+b);
    }

   public int doSum(short a, short b){ // #3
 return(a+b);
 }

   public static void main(String []args){
    DerivedI d = new DerivedI();
    short x =15;
    short y =20;
    System.out.println(d.doSum(x,y));
    }
}
```

Please choose only one answer:

- #1 ; superclass method. No overloading or overriding
- #2 ; overriding
- #2 ; overloading
- #3 ; overriding
- #3 ; overloading
- None of the above

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4.1.10. What will be the output :

Author: Pankaj Gupta

What will be the output :

```
class MySuper
{
MySuper(){disp();}
void disp(){System.out.println("superclass");}
}
class MySub extends MySuper
{
double i=Math.ceil(8.4f);
public static void main(String arg[])
{
MySuper obj= new MySub();
obj.disp();
}
void disp(){System.out.println(i);}
}
```

Please choose only one answer:

- The program displays "superclass" followed by "9.0" as an output.
- The program displays "superclass" followed by "superclass" as an output.
- The program displays "9.0" followed by "9.0" as an output.
- The program displays "0.0" followed by "9.0" as an output.

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Question: Java overriding (the flow of control)

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Interactive Question:
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4.1.11. What is the result of compiling and running this program ?If compil...

Author: Nikhil Kumar

What is the result of compiling and running this program ?If compiles successfully assume "java Dont" at command line

```
class Test
{
 Test(){
  System.out.println("Hello");
 }
 public void showItem(){

 }
}
abstract class A extends Test
{
  A(){
  System.out.println("Hi everyOne");
 }
  abstract public void showItem();
}
class Dont extends A
{
 public void showItem(){
 }
 public static void main(String... args){
  new Dont();
 }
}
```

Please choose only one answer:

- Compile time error
- an exception may be thrown
- Hello
  Hi everyOne

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4.1.12. Given the code. What is the result?

Author: Robin Singh

Given the code. What is the result?

```java
class Hotel {
    public int bookings;
    public void book() {
        bookings++;
    }
}

public class SuperHotel extends Hotel {
    public void book() {
        bookings--;
    }

    public void book(int size) {
        book();
        super.book();
        bookings += size;
    }

    public static void main(String args[]) {
        Hotel hotel = new SuperHotel();
        hotel.book(2);
        System.out.print(hotel.bookings);
    }
}
```

Please choose only one answer:

- Compilation fails.
- An exception is thrown at runtime.
- 0
- 1
- 2
- -1