Oracle

Exam Questions 1z0-808

Java SE 8 Programmer I

NEW QUESTION 1
Given:

```
public static void main(String[] args) {
    String ta = "A ";
    ta = ta.concat("B ");
    String tb = "C ";
    ta = ta.concat(tb);
    ta.replace('C', 'D');
    ta = ta.concat(tb);
    System.out.println(ta);
}
```

What is the result?

A. A B C D
B. A C D
C. A C D D
D. A B D
E. A B D C

Answer: C

NEW QUESTION 2
Given the code fragment:

```
public static void main(String[] args) {
    int ans;
    try {
        int num = 10;
        int div = 0;
        ans = num / div;
    } catch (ArithmeticException ae) {
        ans = 0;                                    // line n1
    } catch (Exception e) {
        System.out.println("Invalid calculation");
    }
    System.out.println("Answer = " + ans);    // line n2
}
```

What is the result?

A. Answer = 0
B. Invalid calculation
C. Compilation fails only at line n1.
D. Compilation fails only at line n2.
E. Compilation fails at line n1 and line2.

Answer: C

Explanation:

```
1
2 public class Test {
3   public static void main(String[] args) {
4     int ans;
5     try {
6       int num = 10;
7       int div = 0;
8       ans = num / div;
9     } catch (ArithmeticException ae) {
10      ans = 0;
11    } catch (Exception e) {
12        System.out.println("Invalid calculation");
  variable ans might not have been initialized
14    System.out.println("Answer = " + ans);  //line n2
15  }
16 }
```

NEW QUESTION 3
Given the following classes:

```
public class Employee {
    public int salary;
}

public class Manager extends Employee {
    public int budget;
}

public class Director extends Manager {
    public int stockOptions;
}
```

And given the following `main` method:

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

Which two options fail to compile when placed at line n1 of the main method? (Choose two.)

A. employee.salary = 50_000;
B. director.salary = 80_000;
C. employee.budget = 200_000;
D. manager.budget = 1_000_000;
E. manager.stockOption = 500;
F. director.stockOptions = 1_000;

Answer: CE

NEW QUESTION 4
Given the code fragments:

Person.java:

```
public class Person {
    String name;
    int age;

    public Person(String n, int a) {
        name = n;
        age = a;
    }

    public String getName() {
        return name;
    }

    public int getAge() {
        return age;
    }
}
```

Test.java:

```
public static void checkAge(List<Person> list, Predicate<Person> predicate) {
    for (Person p : list) {
        if (predicate.test(p)) {
            System.out.println(p.name + " ");
        }
    }
}

public static void main(String[] args) {
    List<Person> iList = Arrays.asList(new Person("Hank", 45),
                                       new Person("Charlie", 40),
                                       new Person("Smith", 38));
    //line n1
}
```

Which code fragment, when inserted at line n1, enables the code to print Hank?

A
```
checkAge (iList, ( ) -> p. get Age ( ) > 40);
```

B
```
checkAge(iList, Person p -> p.getAge( ) > 40);
```

C
```
checkAge (iList, p -> p.getAge ( ) > 40);
```

D
```
checkAge(iList, (Person p) -> { p.getAge() > 40; });
```

A. Option A
B. Option B
C. Option C
D. Option D

Answer: C

NEW QUESTION 5
You are asked to develop a program for a shopping application, and you are given this information:

- The application must contain the classes Toy, EduToy, and ConsToy. The Toy class is the superclass of the other two classes.
- The int calculatePrice (Toy t) method calculates the price of a toy.
- The void printToy (Toy t) method prints the details of a toy.

Which definition of the Toy class adds a valid layer of abstraction to the class hierarchy?

A
```
public abstract class Toy{
    public abstract int calculatePrice(Toy t);
    public void printToy(Toy t) { /* code goes here */ }
}
```

B
```
public abstract class Toy {
    public int calculatePrice(Toy t) ;
    public void printToy(Toy t) ;
}
```

C
```
public abstract class Toy {
    public int calculatePrice(Toy t);
    public final void printToy(Toy t){ /* code goes here */ }
}
```

D
```
public abstract class Toy {
    public abstract int calculatePrice(Toy t) { /* code goes here */ }
    public abstract void printToy(Toy t) { /* code goes here */ }
}
```

A. Option A
B. Option B
C. Option C
D. Option D

Answer: A

NEW QUESTION 6
Given:

```
String stuff = "TV";
String res = null;

if (stuff.equals("TV")) {
    res = "Walter";
} else if (stuff.equals("Movie")) {
    res = "White";
} else {
    res = "No Result";
}
```

Which code fragment can replace the if block?

A

```
stuff.equals ("TV") ? res= "Walter" : stuff.equals ("Movie") ?
res = "White" : res = "No Result";
```

B

```
res = stuff.equals ("TV") ? "Walter" else stuff.equals
("Movie")? "White" : "No Result";
```

C

```
res = stuff.equals ("TV") ? stuff.equals ("Movie")? "Walter" :
"White" : "No Result";
```

D

```
res = stuff.equals ("TV")? "Walter" : stuff.equals ("Movie")?
"White" : "No Result";
```

A. Option A
B. Option B
C. Option C
D. Option D

Answer: D

NEW QUESTION 7
Given the code fragment:

```
LocalDate Time dt= LocalDateTime.of (2014, 7, 31, 1, 1);
dt.plusDays (30);
dt. plusMonths (1);
System.out.print (dt format (DateTimeFormatter. ISO_DATE) );
```

What is the result?

A. An exception is thrown at runtim
B. 07-31-2014
C. 2014-07-31
D. 2014-09-30

Answer: A

NEW QUESTION 8
Given this code for a Planet object:

```
public class Planet {
    public String name;
    public int moons;

    public Planet(String name, int moons) {
        this.name = name;
        this.moons = moons;
    }
}
```

And this method:

```
public static void main(String[] args){
    Planet[] planets = {
        new Planet("Mercury", 0),
        new Planet("Venus", 0),
        new Planet("Earth", 1),
        new Planet("Mars", 2)
    };
        System.out.println(planets);
        System.out.println(planets[2].name);
        System.out.println(planets[2].moons);
    }
```

What is the output?

A

```
planets
Earth
1
```

B

```
[LPlanets.Planet;@15db9742
Earth
1
```

C

```
[LPlanets.Planet;@15db9742
Planets.Planet@6d06d69c
1
```

D

```
[LPlanets.Planet;@15db9742
Planets.Planet@6d06d69c
[LPlanets.Moon;@7852e922
```

E

```
[LPlanets.Planet;@15db9742
Venus
0
```

A. Option A
B. Option B
C. Option C
D. Option D
E. Option E

Answer: C

NEW QUESTION 9
Given the code fragment:

```
public static void main(String[] args) {
    Short s1 = 200;
    Integer s2 = 400;
    Long s3 = (long) s1 + s2;          //line n1
    String s4 = (String) (s3 * s2);    //line n2
    System.out.println("Sum is " + s4);
}
```

What is the result?

A. Sum is 600
B. Compilation fails at line n1.
C. Compilation fails at line n2.
D. A ClassCastException is thrown at line n1.
E. A ClassCastException is thrown at line n2.

Answer: C

NEW QUESTION 10
Given the code fragment:

```
public static void main(String[] args) {
    int data[] = {2010, 2013, 2014, 2015, 2014};
    int key = 2014;
    int count = 0;
    for (int e: data) {
        if (e != key) {
            continue;
            count++;
        }
    }
    System.out.print(count + " Found");
}
```

What is the result?

A. Compilation fails.
B. 0 Found
C. 1 Found
D. 3 Found

Answer: A

NEW QUESTION 10
Given:

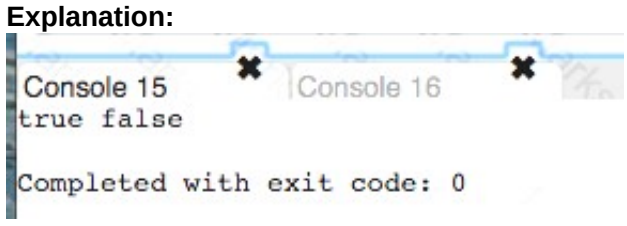
```
public class Test {
    public static void main(String[] args) {
        Test ts = new Test();
        System.out.print(isAvailable + " ");
        isAvailable= ts.doStuff();
        System.out.println(isAvailable);
    }
    public static boolean doStuff() {
        return !isAvailable;
    }
    static boolean isAvailable = true;
}
```

What is the result?

A. Compilation fails.
B. false true
C. true false
D. true true
E. false false

Answer: C

Explanation:



NEW QUESTION 15
Given:

```
class A {
   public void test () {
       System.out.println ("A");
   }
}
class B extends A {
    public void test () {
       System.out.println ("B");
   }
}
public class C extends A {
    public void test () {
       System.out.println ("C");
    }

    public static void main (String [] args) {
        A b1 = new A ();
        A b2 = new C ();

        b1 = (A) b2;              //line n1
        A b3 = (B) b2;            //line n2
        b1.test ();
        b3.test ();
    }
}
```

What is the result?

A. AB
B. AC
C. CC
D. A ClassCastException is thrown only at line n1.
E. A ClassCastException is thrown only at line n2.

Answer: B

NEW QUESTION 16
Given the code fragment:

```
int n [] [] = {{1, 3}, {2, 4 }};
for (int i = n.length-1; i >= 0; i--) {
    for (int y : n[i]) {
        System.out.print (y);
    }
}
```

What is the result?

A. 1324
B. 2313
C. 3142
D. 4231

Answer: D

NEW QUESTION 19
Given:

```
public class Fieldinit {
    char c;
    boolean b;
    float f;
    void printAll() {
        System.out.println ("c = " + c);
        System.out.println ("b = " + b);
        System.out.println ("f = " + f);
    }
    public static void main (String [] args) {
        FieldInit f = new FieldInit ();
        f.printAll ();
    }
}
```

What is the result?

A
```
c=
b = false
f = 0.0
```

B
```
c= null
b = true
f = 0.0
```

C
```
c=0
b = false
f = 0.0f
```

D
```
c= null
b = false
f = 0.0F
```

A. Option A
B. Option B
C. Option C
D. Option D

Answer: A

NEW QUESTION 22
Given:

```
class Patient {
    String name;
    public Patient (String name) {
        this.name = name;
    }
}
```

And the code fragment:

```
8. public class Test {
9.     public static void main (String [] args) {
10.        List ps = new ArrayList ();
11.        Patient p2 = new Patient ("Mike);
12.        ps.add(p2);
13.
14.        // insert code here
15.
16.        if (f >= 0) {
17.            System.out.print ("Mike Found");
18.        }
19.    }
20. }
```

Which code fragment, when inserted at line 14, enables the code to print Mike Found?

A

```
int f = ps.indexOf (p2);
```

B

```
int f = ps.indexOf (Patient ("Mike") );
```

C

```
int f = ps.indexOf (new Patient "Mike") );
```

D

```
Patient p = new Patient("Mike");
int f = ps.indexOf(p)
```

A. Option A
B. Option B
C. Option C
D. Option D

Answer: A

NEW QUESTION 24
Given:

```
public class Test {
    public static void main(String[] args) {
        boolean a = new Boolean(Boolean.valueOf(args[0]));
        boolean b = new Boolean(args[1]);
        System.out.println(a + " " + b);
    }
}
```

And given the commands:

```
javac Test.java
java Test 1 null
```

What is the result?

A. 1 null
B. true false
C. false false
D. true true
E. A ClassCastException is thrown at runtime.

Answer: D

NEW QUESTION 28
Given:

```
public class MyClass {
    public static void main(String[] args) {
        String s = "Java SE 8 1";
        int len = s.trim().length();
        System.out.print(len);
    }
}
```

What is the result?

A. Compilation fails.
B. 11
C. 8
D. 9
E. 10

Answer: B

NEW QUESTION 32
Given:

```
interface Readable {
    public void readBook();
    public void setBookMark();
}

abstract class Book implements Readable {   // line n1
    public void readBook() { }
    // line n2
}

class EBook extends Book {                  // line n3
    public void readBook() { }
    // line n4
}
```

And given the code fragment: Book book1 = new EBook(); book1.readBook();
Which option enables the code to compile?

A) Replace the code fragment at `line n1` with:
```
class Book implements Readable {
```

B) At `line n2` insert:
```
public abstract void setBookMark();
```

C) Replace the code fragment at `line n3` with:
```
abstract class EBook extends Book {
```

D) At `line n4` insert:
```
public void setBookMark() { }
```

A. Option A
B. Option B
C. Option C
D. Option D

Answer: D

NEW QUESTION 34
Given:

```
class Product {
    double price;
}

public class Test {
    public void updatePrice(Product product, double price) {
        price = price * 2;
        product.price = product.price + price;
    }
    public static void main(String[] args) {
        Product prt = new Product();
        prt.price = 200;
        double newPrice = 100;

        Test t = new Test();
        t.updatePrice(prt, newPrice);
        System.out.println(prt.price + " : " + newPrice);
    }
}
```

What is the result?

A. 200.0 : 100.0
B. 400.0 : 200.0
C. 400.0 : 100.0
D. Compilation fails.

Answer: C

NEW QUESTION 38
Which three statements are true about exception handling? (Choose three.)

A. Only unchecked exceptions can be rethrown.
B. All subclasses of the RuntimeException class are not recoverable.
C. The parameter in a catch block is of Throwable type.
D. All subclasses of the RuntimeException class must be caught or declared to be thrown.
E. All subclasses of the RuntimeException class are unchecked exceptions.
F. All subclasses of the Error class are not recoverable.

Answer: BCD

NEW QUESTION 39
Given:

```
class A {
    public void test() {
        System.out.println("A ");
    }
}

class B extends A {
    public void test() {
        System.out.println("B ");
    }
}

public class C extends A {
    public void test() {
        System.out.println("C ");
    }

    public static void main(String[] args) {
        A b1 = new A();
        A b2 = new C();
        A b3 = (B) b2;            //line n1
        b1 = (A) b2;              //line n2
        b1.test();
        b3.test();
    }
}
```

What is the result?

A. AB
B. AC

C. CC
D. A ClassCastException is thrown only at line n1.
E. A ClassCastException is thrown only at line n2.

Answer: D

NEW QUESTION 42
Given:

```
interface I {
    public void displayI();
}
abstract class C2 implements I {
    public void displayC2() {
        System.out.print("C2");
    }
}
class C1 extends C2  {
    public void displayI() {
        System.out.print("C1");
    }
}
```

And the code fragment:

```
C2 obj1 = new C1();
I obj2 = new C1();

C2 s = (C2) obj2;
I t = obj1;

t.displayI();
s.displayC2();
```

What is the result?

A. C1C2
B. C1C1
C. Compilation fails.
D. C2C2

Answer: A

Explanation:

lund

src

App.java

```
1
2  interface I {
3    public void displayI();
4  }
5  abstract class C2 implements I {
6    public void displayC2() {
7      System.out.print("C2");
8    }
9  }
10 class C1 extends C2 {
11   public void displayI() {
12     System.out.print("C1");
13   }
14
15 }
16
17 public class App {
18   public static void main(String[] args) {
19     C2 obj1 = new C1();
20     I obj2 = new C1();
21
22     C2 s = (C2) obj2;
23     I t = obj1;
24
25     t.displayI();
26     s.displayC2();
27   }
28
29 }
```

Console 1 | Console 2 | Console 3 | Console 4

```
C1C2
Completed with exit code: 0
```

NEW QUESTION 43
Given:

```
class Caller {
    private void init () {
        System.out.println("Initialized");
    }

    private void start () {
    init();
    System.out.println("Started");
    }
}

public class TestCall {
    public static void main(String[] args) {
        Caller c = new Caller();
        c.start(); // line n1
        c.init();  // line n2
    }
}
```

What is the result?

A. Compilation fails at line n1.
B. InitializedStartedInitialized
C. InitializedStarted
D. Compilation fails at line n2.

Answer: D

NEW QUESTION 45
Given the code fragment:

```
public static void main(String[] args) {
    StringBuilder sb = new StringBuilder("Java");
    String s = "Java";

    if (sb.toString().equals(s.toString())) {
        System.out.println("Match 1");
    } else if (sb.equals(s)) {
        System.out.println("Match 2");
    } else {
        System.out.println("No Match");
    }
}
```

What is the result?

A. Match 1
B. Match 2
C. No Match
D. A NullPointerException is thrown at runtime.

Answer: A

NEW QUESTION 47
Given this class:

```
public class Rectangle {
      private double length;
      private double height;
      private double area;

      public void setLength(double length) {
            this.length = length;
      }
      public void setHeight(double height) {
            this.height = height;
      }
      public void setArea() {
            area = length*height;
      }
}
```

Which two changes would encapsulate this class and ensure that the area field is always equal to length * height whenever the Rectangle class is used?

A. Call the setArea method at the end of the setHeight method.
B. Call the setArea method at the beginning of the setHeight method.
C. Call the setArea method at the end of the setLength method.
D. Call the setArea method at the beginning of the setLength method.
E. Change the setArea method to private.
F. Change the area field to public.

Answer: AE

NEW QUESTION 51
Which statement is true about the switch statement?

A. It must contain the default section.
B. The break statement, at the end of each case block, is optional.
C. Its case label literals can be changed at runtime.
D. Its expression must evaluate to a collection of values.

Answer: B

NEW QUESTION 52
Given:

```
class Caller {
    private void init () {
        System.out.println("Initialized");
    }

    private void start () {
    init();
    System.out.println("Started");
    }
}

public class TestCall {
    public static void main(String[] args) {
        Caller c = new Caller();
        c.start();
        c.init();
    }
}
```

What is the result?

A. An exception is thrown at runtime.
B. InitializedStartedInitialized
C. InitializedStarted
D. Compilation fails.

Answer: D

NEW QUESTION 55
Given the code fragment:

```
3. public static void main(String[] args) {
4.      int x = 6;
5.      while (isAvailable(x)) {
6.          System.out.print(x);
7.
8.      }
9. }
10.
11. public static boolean isAvailable(int x) {
12.     return --x > 0 ? true : false;
13. }
```

Which modification enables the code to print 54321?

A. Replace line 6 with System.out.print (--x);
B. At line 7, insert x --;
C. Replace line 5 with while (is Available(--x)) {
D. Replace line 12 with return (x > 0) ? false : true;

Answer: C

NEW QUESTION 60
Which statement best describes encapsulation?

A. Encapsulation ensures that classes can be designed so that only certain fields and methods of an object are accessible from other objects.
B. Encapsulation ensures that classes can be designed so that their methods are inheritable.
C. Encapsulation ensures that classes can be designed with some fields and methods declared as abstract.
D. Encapsulation ensures that classes can be designed so that if a method has an argument MyType x, any subclass of MyType can be passed to that method.

Answer: A

NEW QUESTION 64
Which two statements are true? (Choose two.)

A. Error class is unextendable.
B. Error class is extendable.
C. Error is a RuntimeException.
D. Error is an Exception.
E. Error is a Throwable.

Answer: BC

NEW QUESTION 66
Which three statements describe the object-oriented features of the Java language? (Choose three.)

A. Objects cannot be reused.
B. A subclass must override the methods from a superclass.
C. Objects can share behaviors with other objects.
D. A package must contain a main class.
E. Object is the root class of all other objects.
F. A main method must be declared in every class.

Answer: BCF

NEW QUESTION 71
Given the code fragment:

```
int nums1[] = {1, 2, 3};
int nums2[] = {1, 2, 3, 4, 5};
nums 2 = nums 1;
for (int x : nums2){
    System.out.print(x + ":");
}
```

What is the result?

A. 1:2:3:4:5:
B. 1:2:3:
C. Compilation fails.
D. An ArrayOutOfBoundsException is thrown at runtime.

Answer: A

NEW QUESTION 75
Which three statements are true about the structure of a Java class? (Choose three.)

A. A class cannot have the same name as its field.
B. A public class must have a main method.
C. A class can have final static methods.
D. A class can have overloaded private constructors.
E. Fields need to be initialized before use.
F. Methods and fields are optional components of a class.

Answer: BDE

NEW QUESTION 76
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