Practice Exam Questions

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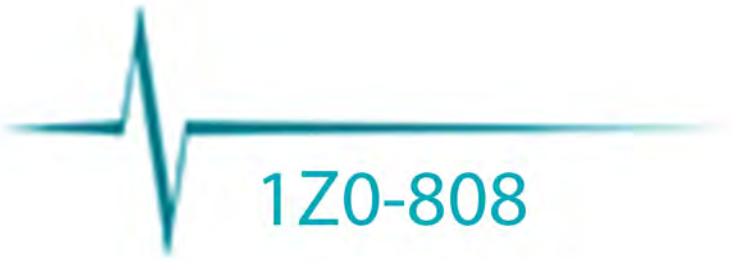

1Z0-808

Java SE 8 Programmer I

EXAMKILLER

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Oracle

Exam 1Z0-808

Java SE 8 Programmer I

Version: 17.0

[Total Questions: 190]

Question No : 1

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

Question No : 2

Given:

```
class Vehicle {
    int x;
    Vehicle(){
        this(10);  // line n1
    }
    Vehicle(int x) {
        this.x = x;
    }
}

class Car extends Vehicle {
    int y;
    Car() {
        super();
        this(20);   // line n2
    }
    Car(int y) {
       this.y = y;
    }
    public String toString() {
        return super.x + ":" + this.y;
    }
}
```

And given the code fragment:

And given the code fragment:

```
Vehicle y = new Car();
System.out.println(y);
```

What is the result?

A. 10:20
B. 0:20
C. Compilation fails at line n1
D. Compilation fails at line n2

Answer: D

Question No : 3

Given the code fragment:

```
public static void main(String[] args) {
    String[][] arr = {{"A", "B", "C"}, {"D", "E"}};
    for (int i = 0; i < arr.length; i++) {
        for (int j = 0; j < arr[i].length; j++) {
            System.out.print(arr[i][j] + " ");
            if (arr[i][j].equals("B")) {
                continue;
            }
        }
        continue;
    }
}
```

What is the result?

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

Answer: D

Question No : 4

Which two code fragments cause a compilation error? (Choose two.)

A. float flt = 100.00F;
B. float flt = (float) 1_11.00;
C. Float flt = 100.00;
D. double y1 = 203.22;float flt = y1;
E. int y2 = 100;float flt = (float) y2 ;

Answer: A,D

Question No : 5

Given the code fragment:

```
10. public static void main(String[] args {
11.      List<String> lst = Arrays.asList("A", "B", "C", "D");
12.      Iterator<String> itr = lst.iterator();
13.      while(itr.hasNext()) {
14.          String e = itr.next();
15.          if (e == "C") {
16.              break;
17.          }
18.          else {
19               continue;
20.              System.out.print(e);
21.          }
22.      }
23. }
```

Which action enables it to print AB?

A. Comment lines 18 to 21.
B. Comment line 20.
C. Comment line 19.
D. Comment line 16.

Answer: B

Question No : 6

Given the code fragment:

```
LocalDate date1 = LocalDate.now();
LocalDate date2 = LocalDate.of(6, 20, 2014 );
LocalDate date3 = LocalDate.parse("2014-06-20", DateTimeFormatter.ISO_DATE);
System.out.println("date1 = " + date1);
System.out.println("date2 = " + date2);
System.out.println("date3 = " + date3);
```

Assume that the system date is June 20, 2014. What is the result?

A

```
date1 = 2014-06-20
date2 = 2014-06-20
date3 = 2014-06-20
```

B

```
date1 = 06/20/2014
date2 = 2014-06-20
date3 = Jun 20, 2014
```

C Compilation fails.

D An exception is thrown at runtime.

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

Answer: A

Question No : 7

Given the code fragment:

```
public static void main(String[] args) {
    double discount = 0;
    int qty = Integer.parseInt(args[0]);
    //line n1;
}
```

And given the requirements:

If the value of the qty variable is greater than or equal to 90, discount = 0.5

If the value of the qty variable is between 80 and 90, discount = 0.2

Which two code fragments can be independently placed at line n1 to meet the requirements? (Choose two.)

☐ A)
```
if (qty >= 90) { discount = 0.5; }
if (qty > 80 && qty < 90) { discount = 0.2; }
```

☐ B)
```
discount = (qty >= 90) ? 0.5 : 0;
discount = (qty > 80) ? 0.2 : 0;
```

☐ C)
```
discount = (qty >= 90) ? 0.5 : (qty > 80)? 0.2 : 0;
```

☐ D)
```
if (qty > 80 && qty < 90) {
    discount = 0.2;
} else {
    discount = 0;
}
if (qty >= 90) {
    discount = 0.5;
} else {
    discount = 0;
}
```

☐ E)
```
discount = (qty > 80) ? 0.2 : (qty >= 90) ? 0.5 : 0;
```

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

Answer: A,C

Question No : 8

Given:

```
public class TestScope {
    public static void main(String[] args) {
        int var1 = 200;
        System.out.print(doCalc(var1));
        System.out.print(" "+var1);
    }
    static int doCalc(int var1){
        var1 = var1 * 2;
        return var1;
    }
}
```

What is the result?

A. 400 200
B. 200 200
C. 400 400
D. Compilation fails.

Answer: A

Question No : 9

Given the code fragment:

```
public static void main(String[] args) {
    String date = LocalDate
                .parse("2014-05-04")
                .format(DateTimeFormatter.ISO_DATE_TIME);
    System.out.println(date);
}
```

What is the result?

A. May 04, 2014T00:00:00.000
B. 2014-05-04T00:00: 00.000
C. 5/4/14T00:00:00.000
D. An exception is thrown at runtime.

Answer: D

Question No : 10

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: A,E

Question No : 11

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 mandatory.
C. Its case label literals can be changed at runtime.
D. Its expression must evaluate to a single value.

Answer: D

Explanation: References:

Question No : 12

Given the code fragment:

```
public static void main(String[] args) {
    int array[] = {10, 20, 30, 40, 50};
    int x = array.length;
    /* line n1 */
}
```

Which two code fragments can be independently inserted at line n1 to enable the code to print the elements of the array in reverse order? (Choose two.)

A

```
while (x > 0) {
      x--;
      System.out.print(array[x]);
}
```

B

```
do {
      x--;
      System.out.print(array[x]);
} while (x >= 0);
```

C

```
while (x >= 0) {
      System.out.print(array[x]);
      x--;
}
```

D

```
do {
      System.out.print(array[x]);
      --x;
} while (x >= 0);
```

E

```
while (x > 0) {
      System.out.print(array[--x]);
}
```

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

D. Option D
E. Option E

Answer: A,E

Question No : 13

Which is true about the switch statement?

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

Answer: B

Explanation: References:

Question No : 14

Given:

```
class Vehicle {
    int x;
    Vehicle(){
        this(10);  // line n1
    }
    Vehicle(int x) {
        this.x = x;
    }
}

class Car extends Vehicle {
    int y;
    Car() {
        super(10);   // line n2
    }
    Car(int y) {
       super(y);
       this.y = y;
    }
    public String toString() {
        return super.x + ":" + this.y;
    }
}
```

And given the code fragment:

```
Vehicle y = new Car(20);
System.out.println(y);
```

What is the result?

A. Compilation fails at line n2.
B. Compilation fails at line n1.
C. 20:20
D. 10:20

Answer: A

Question No : 15

Given the code fragment:

```
 3. public static void main(String[] args) {
 4.       int x = 5;
 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 6 with --x; and, at line 7, insert System.out.print (x);
D. Replace line 12 with return (x > 0) ? false: true;

Answer: B

Question No : 16

You are developing a banking module. You have developed a class named ccMask that has a maskcc method.

Given the code fragment:

```
class CCMask {
    public static String maskCC(String creditCard) {
        String x = "XXXX-XXXX-XXXX-";
        //line n1
    }

    public static void main(String[] args) {
        System.out.println(maskCC("1234-5678-9101-1121"));
    }
}
```

You must ensure that the maskcc method returns a string that hides all digits of the credit card number except the four last digits (and the hyphens that separate each group of four digits).

Which two code fragments should you use at line n1, independently, to achieve this requirement? (Choose two.)

☐ A)
```
StringBuilder sb = new StringBuilder(creditCard);
sb.substring(15, 19);
return x + sb;
```

☐ B)
```
return x + creditCard.substring(15, 19);
```

☐ C)
```
StringBuilder sb = new StringBuilder(x);
sb.append(creditCard, 15, 19);
return sb.toString();
```

☐ D)
```
StringBuilder sb = new StringBuilder(creditCard);
StringBuilder s = sb.insert(0, x);
return s.toString();
```

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

Answer: B,C

Question No : 17

Given the code fragment:

```
public static void main(String[] args) {
    String myStr = "Hello World ";
    myStr.trim();
    int i1 = myStr.indexOf(" ");
    System.out.println(i1);
}
```

What is the result?

A. An exception is thrown at runtime.
B. -1
C. 5
D. 10

Answer: A

Question No : 18

Given the code fragment:

```
String shirts[][] = new String[2][2];
shirts[0][0] = "red";
shirts[0][1] = "blue";
shirts[1][0] = "small";
shirts[1][1] = "medium";
```

Which code fragment prints red: blue: small: medium?

A

```
for (int index = 1; index < 2; index++) {
    for (int idx = 1; idx < 2; idx++) {
        System.out.print(shirts[index][idx] + ":");
    }
}
```

B

```
for (int index = 0; index < 2; ++index) {
    for (int idx = 0; idx < index; ++idx) {
        System.out.print(shirts[index][idx] + ":");
    }
}
```

C

```
for (String [] c : shirts) {
    for (String s : c) {
         System.out.print(s + ":");
    }
}
```

D

```
for (int index = 0; index <=2;) {
    for (int idx = 0; idx <=2;) {
         System.out.print(shirts[index][idx] + ":");
         idx++;
    }
    index++;
}
```

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

Answer: D

Question No : 19

Given the code fragment:

```
 4. public static void main(String[] args) {
 5.     boolean opt = true;
 6.     switch (opt) {
 7.         case true:
 8.             System.out.print("True");
 9.             break;
10.         default:
11.             System.out.print("***");
12.     }
13.     System.out.println("Done");
14. }
```

Which modification enables the code fragment to print TrueDone?

A. Replace line 5 With String opt = "true";Replace line 7 with case "true":
B. Replace line 5 with boolean opt = l;Replace line 7 with case 1:
C. At line 9, remove the break statement.
D. Remove the default section.

Answer: A

Question No : 20

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

A. A public class must have a main method.
B. A class can have only one private constructors.
C. A method can have the same name as a field.
D. A class can have overloaded static methods.
E. The methods are mandatory components of a class.
F. The fields need not be initialized before use.

Answer: A,C,E

Question No : 21

Given the code snippet from a compiled Java source file:

```
public class MyFile
{
    public static void main (String[] args)
    {
        String arg1 = args[0];
        String arg2 = args[1];
        String arg3 = args[2];
        System.out.println("Arg is " + arg3);
    }
}
```

and this output:

```
Arg is 2
```

Which command should you run to obtain this output?

A. java MyFile 2
B. java MyFile 1 2 3 4
C. java MyFile 1 2 2
D. java MyFile 2 2

Answer: C

Question No : 22

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

Question No : 23

Given the code fragment:

```
public static void main(String[] args) {
    try {
        int num = 10;
        int div = 0;
        int ans = nim / div;
    } catch (ArithmeticExeption 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: E

Question No : 24

Given the code fragments:

```
Interface Exportable {
    Void export();
}

class Tool implements Exportable {
    protected void export () {          //line n1
        System.out.println("Tool::export");
    }
}

class ReportTool extends Tool implements Exportable {

    public void export() {              //line n2
        System.out.println("RTool::export");
    }

    public static void main(String[] args) {
        Tool aTool = new ReportTool();
        Tool bTool = new Tool();
        callExport(aTool);
        callExport(bTool);
    }

    public static void callExport (Exportable ex) {
        ex.export();
    }
}
```

What is the result?

A. Compilation fails only at line n2.
B. RTool::exportTool::export
C. Tool::exportTool:export
D. Compilation fails only at line n1.
E. Compilation fails at both line n1 and line n2.

Answer: E

Question No : 25

Given this segment of code:

```
ArrayList<Cycle> myList = new ArrayList<>();
myList.add(new MotorCycle());
```

Which two statements, if either were true, would make the code compile? (Choose two.)

A. MotorCycle is an interface that implements the Cycle class.
B. Cycle is an interface that is implemented by the MotorCycle class.
C. Cycle is an abstract superclass of MotorCycle.
D. Cycle and MotorCycle both extend the Transportation superclass.
E. Cycle and MotorCycle both implement the Transportation interface.
F. MotorCycle is a superclass of Cycle.

Answer: B,C

Question No : 26

Given the code fragment:

```
int array1[] = {1, 2, 3};
int array2[] = new int [5];
array2 = array1;
for (int i : array2) {
     System.out.print(i + " ");
}
System.out.println();
int array3[] = new int[3];
array3 = array2;
for (int i : array3) {
     System.out.print(i + " ");
}
```

What is the result?

A. 1 2 3 0 01 2 3 0 0
B. An Exception is thrown at run time.
C. 1 2 3 0 01 2 3
D. 1 2 31 2 3

Answer: D

Question No : 27

Given the code fragment:

```
class Employee {
   private String name;
   private int age;
   private int salary;

   public Employee (String name, int age) {
       setName (name)
       setAge (age)
       setSalary (2000);
   }
   public Employee (String name, int age, int salary) {
       setSalary (salary);
       this (name, age);
   }
   //getter and setter methods for attributes go here
   public void printDetails () {
       System.out.println (name + " : " + age + " : " + salary);
   }
}
```

Test.java:

```
class Test {
    public static void main(String[] args) {
        Employee e1 = new Employee();
        Employee e2 = new Employee("Jack", 50);
        Employee e3 = new Employee("Chloe", 40, 5000);

        e1.printDetails();
        e2.printDetails();
        e3.printDetails();
    }
}
```

Which is the result?

A Compilation fails in the Employee class.

B
```
null : 0: 0
Jack : 50 : 0
Chloe : 40 : 5000
```

C
```
null : 0 : 0
Jack : 50 : 2000
Chloe : 40 : 5000
```

D Compilation fails in the Test class.

E Both the Employee class and the Test class fail to compile.

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

Answer: E

Question No : 28

Given this class:

```
public class CheckingAccount {
    public int amount;
    public CheckingAccount(int amount){
        this.amount = amount;
    }
    public int getAmount(){ return amount; }
    public void setAmount(int amount){ this.amount = amount; }
    public void changeAmount(int x){
        amount += x;
    }
}
```

And given this main method, located in another class:

```
public static void main(String[] args) {
    CheckingAccount acct = new CheckingAccount((int)(Math.random()*1000));
    //line n1
    System.out.println(acct.getAmount());
}
```

Which three lines, when inserted independently at line n1, cause the program to print a 0 balance?

A. acct.setAmount(-acct.getAmount());
B. acct.amount = 0; <option D earlier>
C. acct.setAmount(0);
D. acct.getAmount() = 0; <option E earlier>
E. this.amount = 0; <option A earlier>
F. acct.changeAmount(0); <option F earlier>
G. acct.changeAmount(-acct.amount); <option G earlier>

Answer: B,D,F

Question No : 29

Given:

```
public class App {
    int count;
    public static void displayMsg () {
        count++;                                                    // line n1
    System.out.println ("Welcome "+"Visit Count: "+count); // line n2
    }
    public static void main (String [] args) {
        App.displayMsg ();                                          // line n3
        App.displayMsg ();                                          // line n4
    }
}
```

What is the result?

A. Compilation fails at line n3 and line n4.
B. Compilation fails at line n1 and line n2.
C. Welcome Visit Count:1Welcome Visit Count: 1
D. Welcome Visit Count:1Welcome Visit Count: 2

Answer: B

Question No : 30

Given the code fragment:

```
int x = 100;
int a = x++;
int b = ++x;
int c = x++;
int d = (a < b) ? (a < c) ? a: (b <c )? b: c: x;
System.out.println(d);
```

What is the result?

A. 100
B. 101
C. 102
D. 103
E. Compilation fails

Answer: E

Question No : 31

Given the code fragments:

```
interface Exportable {
     void export();
}

class Tool implements Exportable {
    public void export() {                    // line n1
        System.out.println("Tool::export");
    }
}

class ReportTool extends Tool {

    void export() {                           // line n2
        System.out.println("RTool::export");
    }

    public static void main(String[] args) {
        Tool aTool = new ReportTool();
        Tool bTool = new Tool();
        callExport(aTool);
        callExport(bTool);
    }

    public static void callExport(Exportable ex)  {
        ex.export();
    }
}
```

What is the result?

A. Compilation fails only at line n1.
B. Compilation fails only at line n2.
C. Tool::exportTool::export
D. Compilation fails at both line n1 and line2.
E. RTool::exportTool::export

Answer: A

Question No : 32

Given:

```
class Vehicle {
    String type = "4W";
    int maxSpeed = 100;

    Vehicle(String type, int maxSpeed) {
        this.type = type;
        this.maxSpeed = maxSpeed;
    }
    Vehicle() {}
}

class Car extends Vehicle {
    String trans;

    Car(String trans) {          //line n1
        this.trans = trans;
    }

    Car(String type, int maxSpeed, String trans) {
        super(type, maxSpeed);    // line n2
        this.trans = trans;
    }
}
```

And given the code fragment:

```
 7. Car c1 = new Car("Auto");
 8. Car c2 = new Car("4W", 150, "Manual");
 9. System.out.println(c1.type + " " + c1.maxSpeed + " " + c1.trans);
10. System.out.println(c2.type + " " + c2.maxSpeed + " " + c2.trans);
```

What is the result?

A. 4W 100 Auto4W 150 Manual
B. null 0 Auto4W 150 Manual
C. Compilation fails only at line n1
D. Compilation fails only at line n2
E. Compilation fails at both line n1 and line n2

Answer: E

Question No : 33

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

Question No : 34

Given the code fragment:

```
13. List colors = new ArrayList();
14. colors.add("green");
15. colors.add("blue");
16. colors.add("red");
17. colors.add("yellow");
18. colors.remove(2);
19. colors.add(3, "cyan");
20. System.out.print(colors);
```

What is the result?