1z0-808 Dumps

Java SE 8 Programmer I

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NEW QUESTION 1
Which one of the following code examples uses valid Java syntax?

```
A.
public class Boat {

        public static void main (String [] args) {
                System.out.println  ("I float.");
                }
    }


B.
public class Cake {
        public static void main (String [] ) {
                System.out.println  ("Chocolate");
                }
    }


C.
public class Dog {
        public void main (String [] args) {
                System.out.println  ("Squirrel.");
                }
    }


D.
public class Bank {
        public static void main (String () args) {
                System.out.println  ("Earn interest.");
                }
    }
```

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

Answer: A

NEW QUESTION 2
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 3
You are asked to create a method that accepts an array of integers and returns the highest value from that array.
Given the code fragment:

```
class Test{
    public static void main(String[] args) {
        int numbers[] = {12, 13, 42, 32, 15, 156, 23, 51, 12};
        int[] keys = findMax(numbers);
    }

    /* line n1 */ {
        int[] keys = new int[3];
        /* code goes here*/
        return keys;
    }
}
```

Which method signature do you use at line n1?

A. public int findMax (int[] numbers)
B. static int[] findMax (int[] max)
C. static int findMax (int[] numbers)
D. final int findMax (int[])

Answer: C

NEW QUESTION 4
Given the code fragments:

```
class Student {
    String name;
    int age;
}
```

And:

```
4.public class Test {
5.   public static void main(String[] args) {
6.       Student s1 = new Student();
7.       Student s2 = new Student();
8.       Student s3 = new Student();
9.       s1 = s3;
10.      s3 = s2;
11.      s2 = null;
12. }
13.}
```

Which statement is true?

A. After line 11, three objects are eligible for garbage collection.
B. After line 11, two objects are eligible for garbage collection.
C. After line 11, one object is eligible for garbage collection.
D. After line 11, none of the objects are eligible for garbage collection.

Answer: C

NEW QUESTION 5
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 6
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 7
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 8
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 9
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 10
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

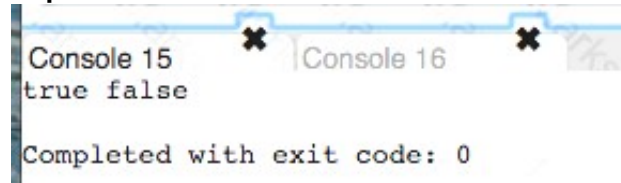**NEW QUESTION 10**
Given:

```java
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:

```
Console 15    ✖    Console 16    ✖
true false

Completed with exit code: 0
```

NEW QUESTION 14
Which two class definitions fail to compile? (Choose two.)
A
```java
abstract class A3 {
    private static int i;
    public void doStuff(){}
    public A3(){}
}
```

B
```java
final class A1 {
    public A1(){}
}
```

C
```java
private class A2 {
    private static int i;
    private A2(){}
}
```

D
```java
class A4 {
    protected static final int i = 10;
    private A4() {}
}
```

```
E
    final abstract class A5 {
        protected static int i;
        void doStuff(){}
        abstract void doIt();
    }
```

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

Answer: CD

NEW QUESTION 18
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 22
Given the code fragment:

```
public static void main(String[] args) {
    int ii = 0;
    int jj = 7;
    for (ii = 0; ii < jj - 1; ii = ii + 2) {
        System.out.print(ii + " ");
    }
}
```

What is the result?

A. 2 4
B. 0 2 4 6
C. 0 2 4
D. Compilation fails

Answer: C

NEW QUESTION 23
Given:

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

What is the result?

A. Welcome Visit Count:0Welcome Visit Count: 1
B. Compilation fails at line n2.
C. Compilation fails at line n1.
D. Welcome Visit Count:0Welcome Visit Count: 0

Answer: C

Explanation:

```
 1
 2  public class App {
 3    int count;
 4    public static void displayMsg() {
 5      System.out.println("Welcome Visit Count: " + count ++); //line n1
 6    }
 7    public static void main(String[] args) {
 8      App.displayMsg();
 9      displayMsg();
10    }
11  }
12
```

NEW QUESTION 28
Given the code from the Greeting.Java file:

```
public class Greeting {
    public static void main(String[] args) {
        System.out.println("Hello " + args[0]);
    }
}
```

Which set of commands prints Hello Duke in the console?

```
A) javac Greeting
   java Greeting Duke

B) javac Greeting.java Duke
   java Greeting

C) javac Greeting.java
   java Greeting Duke

D) javac Greeting.java
   java Greeting.class Duke
```

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

Answer: C

NEW QUESTION 32
Given these two classes:

```
public class Customer {
    ElectricAccount acct = new ElectricAccount();

    public void useElectricity(double kWh){
        acct.addKWh(kWh);
    }
}

public class ElectricAccount {
    private double kWh;
    private double rate = 0.07;
    private double bill;

    //line n1
}
```

Any amount of electricity used by a customer (represented by an instance of the Customer class) must contribute to the customer's bill (represented by the member variable bill) through the useElectricity method.
An instance of the Customer class should never be able to tamper with or decrease the value of the member variable bill.
How should you write methods in the ElectricAccount class at line n1 so that the member variable bill is always equal to the value of the member variable kwh multiplied by the member variable rate?

A

```
    public void addKWh(double kWh) {
        this.kWh += kWh;
        this.bill = this.kWh*this.rate;
    }
```

B

```
    public void addKWh(double kWh) {
        if (kWh > 0){
            this.kWh += kWh;
            this.bill = this.kWh * this.rate;
        }
    }
```

C

```
    private void addKWh(double kWh) {
        if (kWh > 0) {
            this.kWh += kWh;
            this.bill = this.kWh*this.rate;
        }
    }
```

D

```
    public void addKWh(double kWh) {
        if(kWh > 0) {
            this.kWh += kWh;
            setBill(this.kWh);
        }
    }
    public void setBill(double kWh) {
        bill = kWh*rate;
    }
```

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

Answer: A

NEW QUESTION 35
This grid shows the state of a 2D array:

0	0	
	X	0
X		X

The grid is created with this code:
```
char[][] grid = new char[3][3];
grid[1][1] = 'X';
grid[0][0] = 'O';
grid[2][0] = 'X';
grid[0][1] = 'O';
grid[2][2] = 'X';
grid[1][2] = 'O';
//line n1
```

Which line of code, when inserted in place of //line n1, adds an X into the grid so that the grid contains three consecutive Xs?

A. grid[2][1] = 'X';
B. grid[3][2] = 'X';
C. grid[3][1] = 'X';
D. grid[2][3] = 'X';

Answer: D

NEW QUESTION 38
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 41
Given the code fragment:

```
LocalDateTime dt = LocalDateTime.of(2014, 7, 31, 1, 1);
dt.plusDays(30);
dt.plusMonths(1);
System.out.println(dt.format(DateTimeFormatter.ISO_DATE_TIME));
```

What is the result?

A. An exception is thrown at runtim
B. 2014-07-31T01:01:00
C. 2014-07-31
D. 2014-09-30T00:00:00

Answer: B

NEW QUESTION 46
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 49
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

NEW QUESTION 51
Given the code fragment:

```
public static void main(String[] args) {
    LocalDate date = LocalDate.of(2012, 01, 32);
    date.plusDays(10);
    System.out.println(date);
}
```

What is the result?

A. 2012-02-10
B. 2012-02-11
C. Compilation fails
D. A DateTimeException is thrown at runtime.

Answer: D

NEW QUESTION 56
Given this class:

```
public class CheckingAccount {
    public int amount;
    //line n1
}
```

And given this main method, located in another class:

```
public static void main(String[] args) {
    CheckingAccount acct = new CheckingAccount();
    //line n2
}
```

Which three pieces of code, when inserted independently, set the value of amount to 100?

A

```
At line n1 insert:
    public CheckingAccount(){
        amount = 100;
    }
```

B

```
At line n2 insert:
    this.amount = 100;
```

C

```
At line n2 insert:
    amount = 100;
```

D

```
At line n1 insert:
    public CheckingAccount(){
        this.amount = 100;
    }
```

E

```
At line n2 insert:
    acct.amount = 100;
```

F

```
At line n1 insert:
    public CheckingAccount(){
        acct.amount = 100;
    }
```

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

Answer: DE

NEW QUESTION 61
Given:

Base.java:

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

DerivedA.java:

```java
class DerivedA extends Base {
    public void test(){
        System.out.println("DerivedA ");
    }
}
```

DerivedB.java:

```java
class DerivedB  extends DerivedA {
    public void test(){
        System.out.println("DerivedB ");
    }
    public static void main(String[] args) {
        Base b1 = new DerivedB();
        Base b2 = new DerivedA();
        Base b3 = new DerivedB();
        Base b4 = b3;
        b1 = (Base) b2;
        b1.test();
        b4.test();
    }
}
```

What is the result?

A. BaseDerivedA
B. BaseDerivedB
C. DerivedBDerivedB
D. DerivedBDerivedA
E. A ClassCastException is thrown at runtime.

Answer: D

NEW QUESTION 64
Given the code fragment:

```java
7.   StringBuilder sb1 = new StringBuilder("Duke");
8.   String str1 = sb1.toString();
9.   // insert code here
10.    System.out.print(str1 == str2);
```

Which code fragment, when inserted at line 9, enables the code to print true?

A. String str2 = str1;
B. String str2 = new String(str1);
C. String str2 = sb1. toString();
D. String str2 = "Duke";

Answer: A

NEW QUESTION 65
Given:

```
class Test {
    int a1;

    public static void doProduct(int a) {
        a = a * a;
    }

    public static void doString(String s) {
        s.concat(" " + s);
    }

    public static void main(String[] args) {
        Test item = new Test();
        item.a1 = 11;
        String sb = "Hello";
        Integer i = 10;
        doProduct(i);
        doString(sb);
        doProduct(item.a1);
        System.out.println(i + " " + sb + " " + item.a1);
    }
}
```

What is the result?

A. 10 Hello Hello 11
B. 10 Hello Hello 121
C. 100 Hello 121
D. 100 Hello Hello 121
E. 10 Hello 11

Answer: E

NEW QUESTION 67
Given:

```
public class Triangle {
    static double area;
    int b = 2, h = 3;
    public static void main(String[] args) {
        double p, b, h;        //line n1
        if (area == 0) {
            b = 3;
            h = 4;
            p = 0.5;
        area = p * b * h;      //line n2
        }
        System.out.println("Area is " + area);
    }
}
```

What is the result?

A. Area is 6.0
B. Area is 3.0
C. Compilation fails at line n1
D. Compilation fails at line n2.

Answer: D

NEW QUESTION 69
What is the name of the Java concept that uses access modifiers to protect variables and hide them within a class?

A. Encapsulation
B. Inheritance
C. Abstraction
D. Instantiation
E. Polymorphism

Answer: A

Explanation:
Using the private modifier is the main way that an object encapsulates itself and hide data from the outside world.

NEW QUESTION 74
Given:

```
public class Test {
    int x, y;

    public Test(int x, int y) {
        initialize(x, y);
    }

    public void initialize(int x, int y) {
        this.x = x * x;
        this.y = y * y;
    }

    public static void main(String[] args) {
        int x = 3, y = 5;
        Test obj = new Test(x, y);
        System.out.println(x + " " + y);
    }
}
```

What is the result?

A. Compilation fails.
B. 3 5
C. 0 0
D. 9 25

Answer: B

NEW QUESTION 77
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 80
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

NEW QUESTION 82
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 86
Given the code fragment:

```
String[] strs = {"A", "B"};
int idx = 0;
for (String s : strs) {
        strs[idx].concat(" element " + idx);
        idx++;
}
for (idx = 0; idx < strs.length; idx++) {
        System.out.println(strs[idx]);
}
```

What is the result?

A. AB
B. A element 0B element 1
C. A NullPointerException is thrown at runtime.
D. A 0B 1

Answer: C

NEW QUESTION 91
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 94
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

NEW QUESTION 95
Given the code fragment:

```
if (aVar++ < 10) {
    System.out.println(aVar + " Hello Universe!");
} else {
    System.out.println(aVar + " Hello World!");
}
```

What is the result if the integer aVar is 9?

A. Compilation fails.
B. 10 Hello Universe!
C. 10 Hello World!
D. 9 Hello World!

Answer: B

NEW QUESTION 96
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: ACE

NEW QUESTION 100
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