

1z0-809.exam.53q

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1z0-809

Java SE 8 Programmer II

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Exam A

QUESTION 1

Given:

```
public class Counter {  
    public static void main (String[] args) {  
        int a = 10;  
        int b = -1;  
        assert (b >=1) : "Invalid Denominator";  
        int c = a / b;  
        System.out.println (c);  
    }  
}
```

What is the result of running the code with the `-ea` option?

- A. -10
- B. 0
- C. An `AssertionError` is thrown.
- D. A compilation error occurs.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 2

Given:

```
class Bird {  
    public void fly () { System.out.print("Can fly"); }  
}  
class Penguin extends Bird {  
    public void fly () { System.out.print("Cannot fly"); }  
}
```

and the code fragment:

```
class Birdie {
```

```

public static void main (String [ ] args) {
    fly( ( ) -> new Bird ( ));
    fly (Penguin : : new);
}
/* line n1 */
}

```

Which code fragment, when inserted at line n1, enables the Birdie class to compile?



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- A. static void fly (Consumer<Bird> bird) {
 bird :: fly ();
}
- B. static void fly (Consumer<? extends Bird> bird) {
 bird.accept() fly ();
}
- C. static void fly (Supplier<Bird> bird) {
 bird.get() fly ();
}
- D. static void fly (Supplier<? extends Bird> bird) {
 LOST

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 3

Given:

```

1. abstract class Shape {
2.     Shape ( ) { System.out.println ("Shape"); }
3.     protected void area ( ) { System.out.println ("Shape"); }

```

```

4. }
5.
6. class Square extends Shape {
7.     int side;
8.     Square int side {
9.         /* insert code here */
10.        this.side = side;
11.    }
12.    public void area ( ) { System.out.println ("Square"); }
13. }
14. class Rectangle extends Square {
15.     int len, br;
16.     Rectangle (int x, int y) {
17.         /* insert code here */
18.         len = x, br = y;
19.     }
20. void area ( ) { System.out.println ("Rectangle"); }
21. }

```

Which two modifications enable the code to compile?

- A. At line 1, remove `abstract`
- B. At line 9, insert `super ()`;
- C. At line 12, remove `public`
- D. At line 17, insert `super (x)`;
- E. At line 17, insert `super ()`; `super.side = x`;
- F. At line 20, use `public void area ()` {

Correct Answer: DF

Section: (none)

Explanation

Explanation/Reference:

QUESTION 4

Given:

```

class Sum extends RecursiveAction { //line n1
    static final int THRESHOLD_SIZE = 3;
    int stIndex, lstIndex;

```

```

int [ ] data;
public Sum (int [ ]data, int start, int end)    {
    this.data = data;
    this.stIndex = start;
    this.lstIndex = end;
}
protected void compute ( )    {
    int sum = 0;
    if (lstIndex - stIndex <= THRESHOLD_SIZE) {
        for (int i = stIndex; i < lstIndex; i++)    {
            sum += data [i];
        }
        System.out.println(sum);
    } else {
        new Sum (data, stIndex + THRESHOLD_SIZE, lstIndex).fork( );
        new Sum (data, stIndex,
            Math.min (lstIndex, stIndex + THRESHOLD_SIZE)
            ).compute ();
    }
}
}

```

and the code fragment:

```

ForkJoinPool fjPool = new ForkJoinPool ( );
int data [ ] = {1, 2, 3, 4, 5, 6, 7, 8, 9, 10}
fjPool.invoke (new Sum (data, 0, data.length));

```

and given that the sum of all integers from 1 to 10 is 55.
Which statement is true?

- A. The program prints several values that total 55.
- B. The program prints 55.
- C. A compilation error occurs at line n1.
- D. The program prints several values whose sum exceeds 55.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 5

Given:

```
public class Foo<K, V> {
    private K key;
    private V value;

    public Foo (K key, V value) (this.key = key; this value = value;)

    public static <T> Foo<T, T> twice (T value) (return new Foo<T, T> (value, value); )

    public K getKey () (return key;)
    public V getValue () (return value;)
}
```

Which option fails?

- A. `Foo<String, Integer> mark = new Foo<String, Integer> ("Steve", 100);`
- B. `Foo<String, String> pair = Foo.<String>twice ("Hello World!");`
- C. `Foo percentage = new Foo(97, 32);`
- D. `Foo<String, String> grade = new Foo <> ("John", "A");`

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 6

Given the code fragment:

```
Stream<List<String>> iStr= Stream.of (
    Arrays.asList ("1", "John"),
    Arrays.asList ("2", null)0;
Stream<<String> nInSt = iStr.flatMapToInt ((x) -> x.stream ());
nInSt.forEach (System.out :: print);
```

What is the result?

- A. 1John2null
- B. 12
- C. A `NullPointerException` is thrown at run time.
- D. A compilation error occurs.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 7

Given the code fragments:

```
4. void doStuff() throws ArithmeticException, NumberFormatException, Exception {
5.     if (Math.random() > -1 throw new Exception ("Try again");
6. }
```

and

```
24. try {
25.     doStuff ( );
26. } catch (ArithmeticException | NumberFormatException | Exception e) {
27.     System.out.println (e.getMessage()); }
28. catch (Exception e) {
29.     System.out.println (e.getMessage()); }
30. }
```

Which modification enables the code to print Try again?

- A. Comment the lines 28, 29 and 30.
- B. Replace line 26 with:
 } catch (Exception | ArithmeticException | NumberFormatException e) {
- C. Replace line 26 with:
 } catch (ArithmeticException | NumberFormatException e) {
- D. Replace line 27 with:
 throw e;

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 8

Given the definition of the Country class:

```
public class country {
    public enum Continent {ASIA, EUROPE}
    String name;
    Continent region;

    public Country (String na, Continent reg)    {
        name = na, region = reg;
    }
    public String getName () {return name;}
    public Continent getRegion () {return region;}
}
```

and the code fragment:

```
List<Country> couList = Arrays.asList (
    new Country ("Japan", Country.Continent.ASIA),
    new Country ("Italy", Country.Continent.EUROPE),
    new Country ("Germany", Country.Continent.EUROPE));
Map<Country.Continent, List<String>> regionNames = couList.stream ()
    .collect(Collectors.groupingBy (Country ::getRegion,
    Collectors.mapping(Country::getName, Collectors.toList()))));
System.out.println(regionNames);
```

- A. {EUROPE = [Italy, Germany], ASIA = [Japan]}
- B. {ASIA = [Japan], EUROPE = [Italy, Germany]}
- C. {EUROPE = [Germany, Italy], ASIA = [Japan]}
- D. {EUROPE = [Germany], EUROPE = [Italy], ASIA = [Japan]}

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 9

Given the code fragment:

```
Map<Integer, String> books = new TreeMap<>();  
books.put (1007, "A");  
books.put (1002, "C");  
books.put (1001, "B");  
books.put (1003, "B");  
System.out.println (books);
```

What is the result?

- A. {1007 = A, 1002 = C, 1001 = B, 1003 = B}
- B. {1001 = B, 1002 = C, 1003 = B, 1007 = A}
- C. {1002 = C, 1003 = B, 1007 = A}
- D. {1007 = A, 1001 = B, 1003 = B, 1002 = C}

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Reference: TreeMap inherits SortedMap and automatically sorts the element's key

QUESTION 10

Given:

```
class Book {  
    int id;  
    String name;  
    public Book (int id, String name) {  
        this.id = id;  
        this.name = name;  
    }  
    public boolean equals (Object obj) {           //line n1  
        boolean output = false;  
        Book b = (Book) obj;  
        if (this.name.equals(b.name)) {  
            output = true;  
        }  
        return output;  
    }  
}
```

```
}  
}
```

and the code fragment:

```
Book b1 = new Book (101, "Java Programing");  
Book b2 = new Book (102, "Java Programing");  
System.out.println (b1.equals(b2));           //line n2
```

Which statement is true?



- A. The program prints `true`.
- B. The program prints `false`.
- C. A compilation error occurs. To ensure successful compilation, replace line n1 with:
`boolean equals (Book obj) {`
- D. A compilation error occurs. To ensure successful compilation, replace line n2 with:
`System.out.println (b1.equals((Object) b2));`

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 11

Given the content of `/resources/Message.properties`:

```
welcome1="Good day!"
```

and given the code fragment:

```
Properties prop = new Properties ();
```

```
FileInputStream fis = new FileInputStream ("/resources/Message.properties");
prop.load(fis);
System.out.println(prop.getProperty("welcome1"));
System.out.println(prop.getProperty("welcome2", "Test")); //line n1
System.out.println(prop.getProperty("welcome3"));
```

What is the result?

- A. Good day!
Test
followed by an Exception stack trace
- B. Good day!
followed by an Exception stack trace
- C. Good day!
Test
null
- D. A compilation error occurs at line n1.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 12

Which action can be used to load a database driver by using JDBC3.0?

- A. Add the driver class to the META-INF/services folder of the JAR file.
- B. Include the JDBC driver class in a jdbc.properties file.
- C. Use the `java.lang.Class.forName` method to load the driver class.
- D. Use the `DriverManager.getDriver` method to load the driver class.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 13

Given the code fragment:

```
Path p1 = Paths.get("/Pics/MyPic.jpeg");
System.out.println (p1.getNameCount() +
    ":" + p1.getName(1) +
    ":" + p1.getFileName());
```

Assume that the `Pics` directory does NOT exist.
What is the result?

- A. An exception is thrown at run time.
- B. 2:MyPic.jpeg: MyPic.jpeg
- C. 1:Pics:/Pics/ MyPic.jpeg
- D. 2:Pics: MyPic.jpeg

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 14

Given the code fragments:

```
class MyThread implements Runnable {
    private static AtomicInteger count = new AtomicInteger (0);
    public void run () {
        int x = count.incrementAndGet();
        System.out.print (x+" ");
    }
}
```

and

```
Thread thread1 = new Thread(new MyThread());
Thread thread2 = new Thread(new MyThread());
Thread thread3 = new Thread(new MyThread());

Thread [] ta = {thread1, thread2, thread3};
for (int x= 0; x < 3; x++) {
```

```
        ta[x].start();  
    }
```

Which statement is true?

- A. The program prints 1 2 3 and the order is unpredictable.
- B. The program prints 1 2 3.
- C. The program prints 1 1 1.
- D. A compilation error occurs.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 15

Given the code fragment:

```
public static void main (String [ ] args) throws IOException {  
    BufferedReader br = new BufferedReader (new InputStremReader (System.in));  
    System.out.print ("Enter GDP: ");  
    //line 1  
}
```

Which code fragment, when inserted at line 1, enables the code to read the GDP from the user?

- A. `int GDP = Integer.parseInt (br.readLine());`
- B. `int GDP = br.read();`
- C. `int GDP = br.nextInt();`
- D. `int GDP = Integer.parseInt (br.next());`

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 16

Given the code fragment:

```
Path source = Paths.get ("/data/december/log.txt");
Path destination = Paths.get ("/data");
Files.copy (source, destination);
```

and assuming that the file /data/december/log.txt is accessible and contains:

```
10-Dec-2014 - Executed successfully
```

What is the result?

- A. A file with the name log.txt is created in the /data directory and the content of the /data/december/log.txt file is copied to it.
- B. The program executes successfully and does NOT change the file system.
- C. A FileNotFoundException is thrown at run time.
- D. A FileAlreadyExistsException is thrown at run time.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 17

Given:

```
class Student    {
    String course, name, city;
    public Student (String name, String course, String city)    {
        this.course = course; this.name = name; this.city = city;
    }
    public String toString()    {
        return course + ":" + name + ":" + city;
    }
}
```

and the code fragment:

```
List<Student> stds = Arrays.asList(
    new Student ("Jessy", "Java ME", "Chicago"),
```

```

        new Student ("Helen", "Java EE", "Houston"),
        new Student ("Mark", "Java ME", "Chicago"));
stds.stream()
    .collect(Collectors.groupingBy(Student::getCourse))
    .forEach(src, res) -> System.out.println(src));

```

What is the result?

- A. [Java EE: Helen:Houston]
[Java ME: Jessy:Chicago, Java ME: Mark:Chicago]
- B. Java EE
Java ME
- C. [Java ME: Jessy:Chicago, Java ME: Mark:Chicago]
[Java EE: Helen:Houston]
- D. A compilation error occurs.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 18

Given:

```

class ImageScanner implements AutoCloseable {
    public void close () throws Exception {
        System.out.print ("Scanner closed.");
    }
    public void scanImage () throws Exception {
        System.out.print ("Scan.");
        throw new Exception("Unable to scan.");
    }
}
class ImagePrinter implements AutoCloseable {
    public void close () throws Exception {
        System.out.print ("Printer closed.");
    }
    public void printImage () {System.out.print("Print.");    }
}

```

and this code fragment:

```
try (ImageScanner ir = new ImageScanner();
     ImagePrinter iw = new ImagePrinter()) {
    ir.scanImage();
    iw.printImage();
} catch (Exception e) {
    System.out.print(e.getMessage());
}
```

What is the result?

- A. Scan.Printer closed. Scanner closed. Unable to scan.
- B. Scan.Scanner closed. Unable to scan.
- C. Scan. Unable to scan.
- D. Scan. Unable to scan. Printer closed.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 19

Given the structure of the STUDENT table:

```
Student (id INTEGER, name VARCHAR)
```

Given:

```
public class Test {
    static Connection newConnection = null;
    public static Connection get DBConnection () throws SQLException {
        try (Connection con = DriverManager.getConnection(URL, username, password)) {
            newConnection = con;
        }
        return newConnection;
    }
    public static void main (String [] args) throws SQLException {
        get DBConnection ();
        Statement st = newConnection.createStatement();
    }
}
```



```

        st.executeUpdate("INSERT INTO student VALUES (102, 'Kelvin')");
    }
}

```

Assume that:

- The required database driver is configured in the classpath.
- The appropriate database is accessible with the URL, userName, and passWord exists.
- The SQL query is valid.

What is the result?

- A. The program executes successfully and the STUDENT table is updated with one record.
- B. The program executes successfully and the STUDENT table is NOT updated with any record.
- C. A `SQLException` is thrown as runtime.
- D. A `NullPointerException` is thrown as runtime.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 20

Given the code fragments:

```

class Employee {
    Optional<Address> address;
    Employee (Optional<Address> address) {
        this.address = address;
    }
    public Optional<Address> getAddress() { return address; }
}

class Address {
    String city = "New York";
    public String getCity() { return city; }
    public String toString() {
        return city;
    }
}

```

and

```
Address address = null;
Optional<Address> addrsl = Optional.ofNullable (address);
Employee e1 = new Employee (addrsl);
String eAddress = (addrsl.isPresent()) ? addrsl.get().getCity() : "City Not
available";
```

What is the result?

- A. New York
- B. City Not available
- C. null
- D. A NoSuchElementException is thrown at run time.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 21

Given the code fragment:

```
Stream<Path> files = Files.walk(Paths.get(System.getProperty("user.home")));
files.forEach (fName -> {                                     //line n1
    try {
        Path aPath = fName.toAbsolutePath();                //line n2
        System.out.println(fName + ":"
            + Files.readAttributes(aPath, Basic.File.Attributes.class).creationTime
        ());
    } catch (IOException ex) {
        ex.printStackTrace();
    }
});
```

What is the result?



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- A. All files and directories under the home directory are listed along with their attributes.
- B. A compilation error occurs at line n1.
- C. The files in the home directory are listed along with their attributes.
- D. A compilation error occurs at line n2.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 22

Given:

```
class Vehicle    {
    int vno;
    String name;

    public Vehicle (int vno, String name)    {
        this.vno = vno;
        this.name = name;
    }
    public String toString ()    {
        return vno + ":" + name;
    }
}
```

and this code fragment:

```
Set<Vehicle>  vehicles = new TreeSet <> ();
vehicles.add(new Vehicle (10123, "Ford"));
vehicles.add(new Vehicle (10124, "BMW"));
System.out.println(vehicles);
```

What is the result?

- A. 10123 Ford
10124 BMW
- B. 10124 BMW
10123 Ford
- C. A compilation error occurs.
- D. A `ClassCastException` is thrown at run time.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 23

Given that `course.txt` is accessible and contains:

`Course : : Java`

and given the code fragment:

```
public static void main (String[ ] args)    {  
    int i;  
    char c;  
    try (FileInputStream fis = new FileInputStream ("course.txt");  
        InputStreamReader isr = new InputStreamReader(fis);) {  
        while (isr.ready())    {    //line n1  
            isr.skip(2);  
            i = isr.read ();  
            c = (char) i;  
            System.out.print(c);  
        }  
    } catch (Exception e)    {  
        e.printStackTrace();  
    }  
}
```

What is the result?

- A. ur :: va
- B. ueJa
- C. The program prints nothing.
- D. A compilation error occurs at line n1.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 24

Given:

```
public class Test<T>    {
    private T t;
    public T get ()    {
        return t;
    }
    public void set (T t)    {
        this.t = t;
    }
    public static void main (String args [ ] )    {
        Test<String> type = new Test<>();
        Test type1 = new Test ();                //line n1
        type.set("Java");
        type1.set(100);                            //line n2
        System.out.print(type.get() + " " + type1.get());
    }
}
```

What is the result?

- A. Java 100
- B. java.lang.string@<hashcode>java.lang.Integer@<hashcode>
- C. A compilation error occurs. To rectify it, replace line n1 with:
Test<Integer> type1 = new Test<>();
- D. A compilation error occurs. To rectify it, replace line n2 with:
type1.set (Integer(100));

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 25

Given the definition of the Vehicle class:

```
class Vehicle {
    String name;
    void setName (String name) {
        this.name = name;
    }
    String getName() {
        return name;
    }
}
```

Which action encapsulates the Vehicle class?

- A. Make the Vehicle class public.
- B. Make the name variable public.
- C. Make the setName method public.
- D. Make the name variable private.
- E. Make the setName method private.
- F. Make the getName method private.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 26

Given:

```

public class product {
    int id; int price;
    public Product (int id, int price) {
        this.id = id;
        this.price = price;
    }
    public String toString() { return id + ":" + price; }
}

```

and the code fragment:

```

List<Product> products = Arrays.asList(new Product(1, 10),
    new Product (2, 30),
    new Product (2, 30));
Product p = products.stream().reduce(new Product (4, 0), (p1, p2) -> {
    p1.price+=p2.price;
    return new Product (p1.id, p1.price);});
products.add(p);
products.stream().parallel()
    .reduce((p1, p2) -> p1.price > p2.price ? p1 : p2)
    .ifPresent(System.out::println);

```

What is the result?

- A. 2 : 30
- B. 4 : 0
- C. 4 : 60
- D. 4 : 60
2 : 30
3 : 20
1 : 10
- E. The program prints nothing.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 27

Given the code fragments:

```

public class Book implements Comparator<Book> {
    String name;
    double price;
    public Book () {}
    public Book(String name, double price) {
        this.name = name;
        this.price = price;
    }
    public int compare(Book b1, Book b2) {
        return b1.name.compareTo(b2.name);
    }
    public String toString() {
        return name + ":" + price;
    }
}

```

and

```

List<Book>books = Arrays.asList (new Book ("Beginning with Java", 2), new book ("A
Guide to Java Tour", 3));
Collections.sort(books, new Book());
System.out.print(books);

```

What is the result?

- A. [A Guide to Java Tour:3.0, Beginning with Java:2.0]
- B. [Beginning with Java:2, A Guide to Java Tour:3]
- C. A compilation error occurs because the Book class does not override the abstract method `compareTo()`.
- D. An `Exception` is thrown at run time.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 28

Given the code fragment:

```

List<String> listVal = Arrays.asList("Joe", "Paul", "Alice", "Tom");

```



```
System.out.println (
    // line n1
);
```

Which code fragment, when inserted at line n1, enables the code to print the count of string elements whose length is greater than three?

- A. `listVal.stream().filter(x -> x.length()>3).count()`
- B. `listVal.stream().map(x -> x.length()>3).count()`
- C. `listVal.stream().peek(x -> x.length()>3).count().get()`
- D. `listVal.stream().filter(x -> x.length()>3).mapToInt(x -> x).count()`

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 29

Given the code fragments:

```
class Caller implements Callable<String>    {
    String str;
    public Caller (String s) {this.str=s;}
    public String call()throws Exception { return str.concat ("Caller");}
}
class Runner implements Runnable    {
String str;
    public Runner (String s) {this.str=s;}
    public void run () { System.out.println (str.concat ("Runner"));}
}
```

and

```
public static void main (String[] args) InterruptedException, ExecutionException    {
    ExecutorService es = Executors.newFixedThreadPool(2);
    Future f1 = es.submit (new Caller ("Call"));
    Future f2 = es.submit (new Runner ("Run"));
    String str1 = (String) f1.get();
    String str2 = (String) f2.get();           //line n1
    System.out.println(str1+ ":" + str2);
}
```

What is the result?

- A. The program prints:
Run Runner
Call Caller : null
And the program does not terminate.
- B. The program terminates after printing:
Run Runner
Call Caller : Run
- C. A compilation error occurs at line n1.
- D. An `Execution` is thrown at run time.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 30

Given:

```
public class Canvas implements Drawable {  
    public void draw ()    { }  
}  
  
public abstract class Board extends Canvas { }  
  
public class Paper extends Canvas {  
    protected void draw (int color)    { }  
}  
public class Frame extends Canvas implements Drawable {  
    public void resize ()    { }  
}  
public interface Drawable {  
    public abstract void draw ();  
}
```

Which statement is true?

- A. Board does not compile.
- B. Paper does not compile.
- C. Frame does not compile.
- D. Drawable does not compile.
- E. All classes compile successfully.

Correct Answer: E

Section: (none)

Explanation

Explanation/Reference:

QUESTION 31

Given the code fragment:

```
List<String> str = Arrays.asList ("my", "pen", "is", "your", "pen");
Predicate<String> test = s -> {
    int i = 0;
    boolean result = s.contains ("pen");
    System.out.print(i++) + ":";
    return result;
};
str.stream()
    .filter(test)
    .findFirst()
    .ifPresent(System.out ::print);
```

What is the result?

- A. 0 : 0 : pen
- B. 0 : 1 : pen
- C. 0 : 0 : 0 : 0 : 0 : pen
- D. 0 : 1 : 2 : 3 : 4 :
- E. A compilation error occurs.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 32

Given the code fragment:

```
List<String> empDetails = Arrays.asList("100, Robin, HR",  
                                       "200, Mary, AdminServices",  
                                       "101, Peter, HR");  
  
empDetails.stream()  
    .filter(s-> s.contains("1"))  
    .sorted()  
    .forEach(System.out::println); //line n1
```

What is the result?

- A. 100, Robin, HR
101, Peter, HR
- B. A compilation error occurs at line n1.
- C. 100, Robin, HR
101, Peter, HR
200, Mary, AdminServices
- D. 100, Robin, HR
200, Mary, AdminServices
101, Peter, HR

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 33

Given:

```
interface Rideable {Car getCar (String name); }  
  
class Car {  
    private String name;  
    public Car (String name) {  
        this.name = name;  
    }  
}
```

```
}  
}
```

Which code fragment creates an instance of `Car`?

- A. `Car auto = Car ("MyCar") : : new;`
- B. `Car auto = Car : : new;`
`Car vehicle = auto : : getCar("MyCar");`
- C. `Rideable rider = Car : : new;`
`Car vehicle = rider.getCar("MyCar");`
- D. `Car vehicle = Rideable : : new : : getCar("MyCar");`

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 34

Which statement is true about the single abstract method of the `java.util.function.Function` interface?

- A. It accepts one argument and returns `void`.
- B. It accepts one argument and returns `boolean`.
- C. It accepts one argument and always produces a result of the same type as the argument.
- D. It accepts an argument and produces a result of any data type.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 35

Given:

```
final class Folder {           //line n1  
    //line n2  
    public void open () {
```

```

        System.out.print("Open");
    }
}
public class Test {
    public static void main (String [] args) throws Exception    {
        try (Folder f = new Folder())    {
            f.open();
        }
    }
}

```

Which two modifications enable the code to print Open Close?

- A. Replace line n1 with:
class Folder implements AutoCloseable {
- B. Replace line n1 with:
class Folder extends Closeable {
- C. Replace line n1 with:
class Folder extends Exception {
- D. At line n2, insert:
final void close () {
 System.out.print("Close");
}
- E. At line n2, insert:
public void close () throws IOException {
 System.out.print("Close");
}

Correct Answer: AE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 36

You want to create a singleton class by using the Singleton design pattern.
Which two statements enforce the singleton nature of the design?

- A. Make the class `static`.
- B. Make the constructor `private`.

- C. Override `equals()` and `hashCode()` methods of the `java.lang.Object` class.
- D. Use a `static` reference to point to the single instance.
- E. Implement the `Serializable` interface.

Correct Answer: BD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 37

Given the code fragment:

```
9. Connection conn = DriverManager.getConnection(dbURL, userName, passWord);
10. String query = "SELECT id FROM Employee";
11. try (Statement stmt = conn.createStatement()) {
12.     ResultSet rs = stmt.executeQuery(query);
13.     stmt.executeQuery("SELECT id FROM Customer");
14.     while (rs.next()) {
15.         //process the results
16.         System.out.println("Employee ID: "+ rs.getInt("id"));
17.     }
18. } catch (Exception e) {
19.     System.out.println ("Error");
20. }
```

Assume that:

The required database driver is configured in the classpath.

The appropriate database is accessible with the `dbURL`, `userName`, and `passWord` exists.

The `Employee` and `Customer` tables are available and each table has `id` column with a few records and the SQL queries are valid.

What is the result of compiling and executing this code fragment?



- A. The program prints employee IDs.
- B. The program prints customer IDs.

- C. The program prints Error.
- D. compilation fails on line 13.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 38

Given:

```
public class Customer    {
    private String fName;
    private String lName;
    private static int count;
    public customer (String first, String last) {fName = first, lName = last;
    ++count;}
    static {  count = 0;  }
    public static int getCount()  {return count;  }
}

public class App    {
    public static void main (String [] args)    {
        Customer c1 = new Customer("Larry", "Smith");
        Customer c2 = new Customer("Pedro", "Gonzales");
        Customer c3 = new Customer("Penny", "Jones");
        Customer c4 = new Customer("Lars", "Svenson");
        c4 = null;
        c3 = c2;
        System.out.println (Customer.getCount());
    }
}
```

What is the result?

- A. 0
- B. 2
- C. 3
- D. 4

E. 5

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 39

Given:

Item table

- ID, INTEGER: PK
- DESCRIP, VARCHAR(100)
- PRICE, REAL
- QUANTITY< INTEGER

And given the code fragment:

```
9. try {
10.     Connection conn = DriverManager.getConnection(dbURL, username, password);
11.     String query = "Select * FROM Item WHERE ID = 110";
12.     Statement stmt = conn.createStatement();
13.     ResultSet rs = stmt.executeQuery(query);
14.     while(rs.next()) {
15.         System.out.println("ID:          " + rs.getInt("Id"));
16.         System.out.println("Description:    " + rs.getString("Descrip"));
17.         System.out.println("Price:         " + rs.getDouble("Price"));
18.         System.out.println("Quantity:     " + rs.getInt("Quantity"));
19.     }
20. } catch (SQLException se) {
21.     System.out.println("Error");
22. }
```

Assume that:

The required database driver is configured in the classpath.

The appropriate database is accessible with the dbURL, userName, and passWord exists.

The SQL query is valid.

What is the result?

- A. An exception is thrown at runtime.
- B. Compilation fails.
- C. The code prints `Error`.
- D. The code prints information about Item 110.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 40

Given:

```
class Worker extends Thread {
    CyclicBarrier cb;
    public Worker(CyclicBarrier cb) { this.cb = cb; }
    public void run () {
        try {
            cb.await();
            System.out.println("Worker...");
        } catch (Exception ex) { }
    }
}
class Master implements Runnable { //line n1
    public void run () {
        System.out.println("Master...");
    }
}
```

and the code fragment:

```
Master master = new Master();
//line n2
Worker worker = new Worker(cb);
worker.start();
```

You have been asked to ensure that the `run` methods of both the `Worker` and `Master` classes are executed. Which modification meets the requirement?

- A. At line n2, insert `CyclicBarrier cb = new CyclicBarrier(2, master);`
- B. Replace line n1 with `class Master extends Thread {`
- C. At line n2, insert `CyclicBarrier cb = new CyclicBarrier(1, master);`
- D. At line n2, insert `CyclicBarrier cb = new CyclicBarrier(master);`

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 41

Given the code fragment:

```
String str = "Java is a programming language";
ToIntFunction<String> indexVal = str::indexOf; //line n1
int x = indexVal.applyAsInt("Java");           //line n2
System.out.println(x);
```

What is the result?

- A. 0
- B. 1
- C. A compilation error occurs at line n1.
- D. A compilation error occurs at line n2.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 42

Given the code fragment:

```
List<String> nL = Arrays.asList("Jim", "John", "Jeff");
Function<String, String> funVal = s -> "Hello : ".contact(s);
nL.Stream()
```

```
.map(funVal)
.peek(System.out::print);
```

What is the result?

- A. Hello : Jim Hello : John Hello : Jeff
- B. Jim John Jeff
- C. The program prints nothing.
- D. A compilation error occurs.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 43

Given:

```
public interface Moveable<Integer>    {
    public default void walk (Integer distance) {System.out.println("Walking");}
    public void run(Integer distance);
}
```

Which statement is true?

- A. Moveable can be used as below:

```
Moveable<Integer> animal = n -> System.out.println("Running" + n);
animal.run(100);
animal.walk(20);
```
- B. Moveable can be used as below:

```
Moveable<Integer> animal = n -> n + 10;
animal.run(100);
animal.walk(20);
```
- C. Moveable can be used as below:

```
Moveable animal = (Integer n) -> System.out.println(n);
animal.run(100);
Moveable.walk(20);
```
- D. Movable cannot be used in a lambda expression.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 44

Given the code fragment:

```
LocalDate valentinesDay = LocalDate.of(2015, Month.FEBRUARY, 14);  
LocalDate nextYear = valentinesDay.plusYears(1);  
nextYear.plusDays(15); //line n1  
System.out.println(nextYear);
```

What is the result?

- A. 2016-02-14
- B. A `DateTimeException` is thrown.
- C. 2016-02-29
- D. A compilation error occurs at line n1.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 45

Given the code fragment:

```
BiFunction<Integer, Double, Integer> val = (t1, t2) -> t1 + t2; //line n1  
System.out.println(val.apply(10, 10.5));
```

What is the result?

- A. 20
- B. 20.5

- C. A compilation error occurs at line n1.
- D. A compilation error occurs at line n2.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 46

Given the code fragment:

```
UnaryOperator<Integer> uo1 = s -> s*2;           line n1
List<Double> loanValues = Arrays.asList(1000.0, 2000.0);
loanValues.stream()
    .filter(lv -> lv >= 1500)
    .map(lv -> uo1.apply(lv))
    .forEach(s -> System.out.print(s + " "));
```

What is the result?

- A. 4000.0
- B. 4000
- C. A compilation error occurs at line n1.
- D. A compilation error occurs at line n2.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 47

You have been asked to create a ResourceBundle which uses a properties file to localize an application. Which code example specifies valid keys of menu1 and menu2 with values of File Menu and View Menu?

- A. `<key name = 'menu1">File Menu</key>`
`<key name = 'menu2">View Menu</key>`

- B. `<key>menu1</key><value>File Menu</value>`
`<key>menu2</key><value>View Menu</value>`
- C. menu1, File Menu, menu2, View Menu **Menu**
- D. menu1 = File Menu
menu2 = View Menu

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 48

Given the records from the Employee table:

eid	ename
111	Tom
112	Jerry
113	Donald

and given the code fragment:

```
try {
    Connection conn = DriverManager.getConnection (URL, userName, passWord);
    Statement st = conn.createStatement (ResultSet.TYPE_SCROLL_INSENSITIVE,
        ResultSet.CONCUR_UPDATABLE);
    st.execute("SELECT*FROM Employee");
    ResultSet rs = st.getResultSet();
    while (rs.next()) {
        if (rs.getInt(1) ==112) {
            rs.updateString(2, "Jack");
        }
    }
    rs.absolute(2);
    System.out.println(rs.getInt(1) + " " + rs.getString(2));
} catch (SQLException ex) {
    System.out.println("Exception is raised");
}
```

Assume that:

The required database driver is configured in the classpath.
The appropriate database accessible with the URL, userName, and passWord exists.
What is the result?

- A. The Employee table is updated with the row:
112 Jack
and the program prints:
112 Jerry
- B. The Employee table is updated with the row:
112 Jack
and the program prints:
112 Jack
- C. The Employee table is not updated and the program prints:
112 Jerry
- D. The program prints Exception is raised.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 49

Given the code fragment:

```
class CallerThread implements Callable<String> {  
    String str;  
    public CallerThread(String s) {this.str=s;}  
    public String call() throws Exception {  
        return str.concat("Call");  
    }  
}
```

and

```
public static void main (String[] args) throws InterruptedException, ExecutionException  
{  
    ExecutorService es = Executors.newFixedThreadPool(4);           //line n1  
    Future f1 = es.submit (newCallerThread("Call"));  
    String str = f1.get().toString();  
    System.out.println(str);  
}
```



```
}
```

Which statement is true?

- A. The program prints `Call Call` and terminates.
- B. The program prints `Call Call` and does not terminate.
- C. A compilation error occurs at line `n1`.
- D. An `ExecutionException` is thrown at run time.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 50

Given the code fragment:

```
public class FileThread implements Runnable {
    String fName;
    public FileThread(String fName) { this.fName = fName; }
    public void run () System.out.println(fName);}
    public static void main (String[] args) throws IOException, InterruptedException {
        ExecutorService executor = Executors.newCachedThreadPool();
        Stream<Path> listOfFiles = Files.walk(Paths.get("Java Projects"));
        listOfFiles.forEach(line -> {
            executor.execute(new FileThread(line.getFileName().toString())); //
line n1
        });
        executor.shutdown();
        executor.awaitTermination(5, TimeUnit.DAYS); //
line n2
    }
}
```

The `Java Projects` directory exists and contains a list of files.

What is the result?

- A. The program throws a runtime exception at line `n2`.
- B. The program prints files names concurrently.

- C. The program prints files names sequentially.
- D. A compilation error occurs at line n1.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 51

Given the code fragments:

```
class TechName    {
    String techName;
    TechName (String techName)    {
        this.techName=techName;
    }
}
```

and

```
List<TechName> tech = Arrays.asList    (
    new TechName("Java-"),
    new TechName("Oracle DB-"),
    new TechName("J2EE-")
);
Stream<TechName> stre = tech.stream();
//line n1
```

Which should be inserted at line n1 to print Java-Oracle DB-J2EE-?

- A. `stre.forEach(System.out::print);`
- B. `stre.map(a-> a.techName).forEach(System.out::print);`
- C. `stre.map(a-> a).forEachOrdered(System.out::print);`
- D. `stre.forEachOrdered(System.out::print);`

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 52

Given that `/green.txt` and `/colors/yellow.txt` are accessible, and the code fragment:

```
Path source = Paths.get("/green.txt");
Path target = Paths.get("/colors/yellow.txt");
Files.move(source, target, StandardCopyOption.ATOMIC_MOVE);
Files.delete(source);
```

Which statement is true?

- A. The `green.txt` file content is replaced by the `yellow.txt` file content and the `yellow.txt` file is deleted.
- B. The `yellow.txt` file content is replaced by the `green.txt` file content and an exception is thrown.
- C. The file `green.txt` is moved to the `/colors` directory.
- D. A `FileAlreadyExistsException` is thrown at runtime.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:



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QUESTION 53

Given:

```
interface Doable {
    public void doSomething (String s);
}
```

Which two class definitions compile?

- A. `public abstract class Task implements Doable {`

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```

    public void doSomethingElse(String s)    {   }
}
B. public abstract class Work implements Doable {
    public abstract void doSomething(String s)    {   }
    public void doYourThing(Boolean b)    {   }
}
C. public class Job implements Doable {
    public void doSomething(Integer i)    {   }
}
D. public class Action implements Doable {
    public void doSomething(Integer i)    {   }
    public String doThis(Integer j)    {   }
}
E. public class Do implements Doable {
    public void doSomething(Integer i)    {   }
    public void doSomething(String s)    {   }
    public void doThat (String s)    {   }
}

```

Correct Answer: AE

Section: (none)

Explanation

Explanation/Reference: