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Java SE 8 Programmer II

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QUESTION 1

Given the code fragment:

Path path1 = Paths.get("/app/./sys/");

Path res1 = path1.resolve("log");

Path path2 = Paths.get("/server/exe/");

Path res1 = path1.resolve("/readme/");

System.out.println(res1);

System.out.println(res2);

What is the result?

A. /app/sys/log /readme/server/exe

B. /app/log/sys /server/exe/readme

C. /app/./sys/log /readme

D. /app/./sys/log /server/exe/readme

Correct Answer: C

QUESTION 2

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

QUESTION 3

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

QUESTION 4

Given:

```
class UserException extends Exception        {   }
class AgeOutOfLimitException extends UserException      {   }
```

and the code fragment:

```
class App  {
     public void doRegister(String name, int age)
throws UserException, AgeOutOfLimitException  {
             if (name.length () < 5)  {
                throw new UserException ();
           } else if (age > 60)    {
                throw AgeOutOfLimitException ();
           } else {
                System.out.println ("User is registered.");
           }
      }
      public static void main(String[ ] args) throws UserException  {

          App t = new App ();
          t.doRegister ("Mathew", 60);
     }
}
```

What is the result?

A. User is registered.

B. An AgeOutOfLimitException is thrown.

C. A UserException is thrown.

D. A compilation error occurs in the doRegister method.

Correct Answer: B

QUESTION 5

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;
    }
    public String getCourse() { return course; }
    public String getName() { return name; }
    public String getCity() { return 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(scr));
```

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: D

```
Your Code ...
 1 ▾ public class Student {
 2       String course, name, city;
 3 ▾     public Student (String name, String course, String cit
 4           this.course = course; this.name = name; this.city
 5       }
 6 ▾     public String toString() {
 7           return course + ":" + name + ":" + city;
 8       }
 9       public String getCourse() {return course; }
10       public String getName() {return name; }
11       public String getCity() {return city; }
12
13       List<Student> stds = Arrays.asList (
14           new Student ("Jessy", "Java ME", "Chicago"),
15           new Student ("Helen", "Java ME", "Houston"),
16           new Student ("Mark", "Java ME", "Chicago"));
17       stds.stream()
18           .collect (Collectors.groupBy(Student::getCourse))
19           .forEach (src, res) -> System.out.println(scr));
20  }
21
```

CommandLine Arguments ...

Stdin Inputs...

⊙ Execute   Sc

Result...
CPU Time: sec(s), Memory: kilobyte(s)

```
/Student.java:17: error: <identifier> expected
    stds.stream()
              ^
/Student.java:17: error: ';' expected
    stds.stream()
                ^
2 errors
```