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Java SE 8 Programmer II

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Question: 1

Given the definition of the Vehicle class:

```
Class Vehicle {
int distance;//line n1
Vehicle (int x) {
this distance = x;
}
public void increSpeed(int time) {//line n2
int timeTravel = time;//line n3
class Car {
int value = 0;
public void speed () {
value = distance /timeTravel;
System.out.println ("Velocity with new speed"+value+"kmph");
}
}
new Car().speed();
}
}
```

and this code fragment:

```
Vehicle v = new Vehicle (100);
v.increSpeed(60);
What is the result?
```

- A. Velocity with new speed
- B. A compilation error occurs at line n1.
- C. A compilation error occurs at line n2.
- D. A compilation error occurs at line n3.

Answer: A

Question: 2

Given:

```
IntStream stream = IntStream.of (1,2,3);
IntFunction<Integer> inFu= x -> y -> x*y;//line n1
IntStream newStream = stream.map(inFu.apply(10));//line n2
newStream.forEach(System.out::print);
Which modification enables the code fragment to compile?
```

- A. Replace line n1 with: `IntFunction<UnaryOperator> inFu = x -> y -> x*y;`
- B. Replace line n1 with: `IntFunction<IntUnaryOperator> inFu = x -> y -> x*y;`
- C. Replace line n1 with: `BiFunction<IntUnaryOperator> inFu = x -> y -> x*y;`

D. Replace line n2 with:`IntStream newStream = stream.map(inFu.applyAsInt (10));`

Answer: B

Question: 3

Given the code fragment:

```
List<Integer> values = Arrays.asList (1, 2, 3);
values.stream ()
.map(n -> n*2)//line n1
.peek(System.out::print)//line n2
.count();
```

What is the result?

- A. 246
- B. The code produces no output.
- C. A compilation error occurs at line n1.
- D. A compilation error occurs at line n2.

Answer: A

Question: 4

Given the code fragment:

```
public class Foo {
public static void main (String [ ] args) {
Map<Integer, String> unsortMap = new HashMap<> ( );
unsortMap.put (10, "z");
unsortMap.put (5, "b");
unsortMap.put (1, "d");
unsortMap.put (7, "e");
unsortMap.put (50, "j");
Map<Integer, String> treeMap = new TreeMap <Integer, String> (new
Comparator<Integer> ( ) {
@Override public int compare (Integer o1, Integer o2) {return o2.compareTo
(o1); } });
treeMap.putAll (unsortMap);
for (Map.Entry<Integer, String> entry : treeMap.entrySet ( ) ) {
System.out.print (entry.getValue ( ) + " ");
}
}
}
```

What is the result?

- A. A compilation error occurs.
- B. d b e z j
- C. j z e b d
- D. z b d e j

Answer: C

Question: 5

Which two reasons should you use interfaces instead of abstract classes? (Choose two.)

- A. You expect that classes that implement your interfaces have many common methods or fields, or require access modifiers other than public.
- B. You expect that unrelated classes would implement your interfaces.
- C. You want to share code among several closely related classes.
- D. You want to declare non-static on non-final fields.
- E. You want to take advantage of multiple inheritance of type.

Answer: B,E

Question: 6

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.

Answer: C

Question: 7

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?

- 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

Answer: C

Question: 8

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? (Choose two.)

- 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 () {

Answer: D,F

Question: 9

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, dat
a.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.

Answer: C

Question: 10

Given the content of Operator.java, EngineOperator.java, and Engine.java files:

```
Operator.java:
public abstract class Operator {
    protected void turnON();
    protected void turnOFF();
}

EngineOperator.java:
public class EngineOperator extends Operator{
    public final void turnON() { System.out.print("ON "); }
    public final void turnOFF() { System.out.println("OFF"); }
}

Engine.java:
public class Engine{
    Operator m = new EngineOperator();
    public void operate() {
        m.turnON();
        m.turnOFF();
    }
}
```

and the code fragment:

```
Engine carEngine = new Engine();
carEngine.operate();
```

What is the result?

- A. The Engine.java file fails to compile.
- B. The EngineOperator.java file fails to compile.
- C. The Operator.java file fails to compile.
- D. ON OFF

Answer: A

Question: 11

Given the code fragment:

```
Stream<List<String>> iStr= Stream.of (  
Arrays.asList ("1", "John"),  
Arrays.asList ("2", null));  
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.

Answer: D

Question: 12

Given the code fragment:

```
Path file = Paths.get ("courses.txt");  
// line n1
```

Assume the courses.txt is accessible.

Which code fragment can be inserted at line n1 to enable the code to print the content of the courses.txt file?

- A. `List<String> fc = Files.list(file);fc.stream().forEach (s - > System.out.println(s));`
- B. `Stream<String> fc = Files.readAllLines (file);fc.forEach (s - > System.out.println(s));`
- C. `List<String> fc = readAllLines(file);fc.stream().forEach (s - > System.out.println(s));`
- D. `Stream<String> fc = Files.lines (file);fc.forEach (s - > System.out.println(s));`

Answer: D

Question: 13

Given the code fragment:

```
public void recDelete (String dirName) throws IOException {  
File [ ] listOfFiles = new File (dirName) .listFiles();  
if (listOfFiles != null && listOfFiles.length >0) {  
for (File aFile : listOfFiles) {
```



```

if (aFile.isDirectory ()) {
recDelete (aFile.getAbsolutePath ());
} else {
if (aFile.getName ().endsWith (".class"))
aFile.delete ();
}
}
}
}
}

```

Assume that Projects contains subdirectories that contain .class files and is passed as an argument to the recDelete () method when it is invoked.

What is the result?

- A. The method deletes all the .class files in the Projects directory and its subdirectories.
- B. The method deletes the .class files of the Projects directory only.
- C. The method executes and does not make any changes to the Projects directory.
- D. The method throws an IOException.

Answer: A

Question: 14

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;

Answer: C

Question: 15

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);  
What is the output?
```

- 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]}

Answer: B

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