

1Z0-819^{Q&As}

Java SE 11 Developer

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QUESTION 1

Given: What is required to make the Foo class thread safe?

```
public class Foo {
    private final ReentrantLock lock = new ReentrantLock();
    private State state;
    public void foo() throws Exception {
        try {
            lock.lock();
            state.mutate();
        }
        finally {
            lock.unlock();
        }
    }
}
```

- A. No change is required.
- B. Make the declaration of lock static.
- C. Replace the lock constructor call with new ReentrantLock (true).
- D. Move the declaration of lock inside the foo method.

Correct Answer: C

Reference: <https://stackoverflow.com/>

QUESTION 2

Which three annotation uses are valid? (Choose three.)

- A. Function func = (@NonNull x) > x.toUpperCase();
- B. var v = "Hello" + (@Interned) "World"
- C. Function func = (var @NonNull x) > x.toUpperCase();
- D. Function func = (@NonNull var x) > x.toUpperCase();
- E. var myString = (@NonNull String) str;
- F. var obj = new @Interned MyObject();

Correct Answer: ACF

QUESTION 3

Given: Which two methods facilitate valid ways to read instance fields? (Choose two.)

```
public class DNASynth {
    int aCount;
    int tCount;
    int cCount;
    int gCount;

    int getACount(int aCount){
        return aCount;
    }
    int getTCount(int tCount){
        return this.tCount;
    }
    int getCCount(){
        return getTotalCount() - this.aCount - getTCount(0) - gCount;
    }
    int getGCount(){
        return getGCount();
    }
    int getTotalCount(){
        return aCount + getTCount(0) + this.cCount + this.gCount;
    }
}
```

- A. getTCount
- B. getACount
- C. getTotalCount
- D. getCCount
- E. getGCount

Correct Answer: AB

QUESTION 4

Given:

```
var data = new ArrayList();
```

```
data.add("Peter");
```

```
data.add(30);
```

```
data.add("Market Road");
```

```
data.set(1, 25);
```

```
data.remove(2);
```

```
data.set(3, 1000L);
```

```
System.out.print(data);
```

What is the output?

A. [Market Road, 1000]

B. [Peter, 30, Market Road]

C. [Peter, 25, null, 1000]

D. An exception is thrown at run time.

Correct Answer: D

```
Console 1 ✖
Exception in thread "main" java.lang.IndexOutOfBoundsException: Index 3 out of bounds for length 2
    at java.base/jdk.internal.util.Preconditions.outOfBounds(Preconditions.java:64)
    at java.base/jdk.internal.util.Preconditions.outOfBoundsCheckIndex(Preconditions.java:70)
    at java.base/jdk.internal.util.Preconditions.checkIndex(Preconditions.java:248)
    at java.base/java.util.Objects.checkIndex(Objects.java:372)
    at java.base/java.util.ArrayList.set(ArrayList.java:472)
    at abc.main(abc.java:13)

Completed with exit code: 1
```

QUESTION 5

Given the code fragment: What is the result?

```
public static void main(String[] args) {

    var symbols = List.of("USD", "GBP", "EUR", "CNY");
    var exchangeRate = List.of(1.0, 1.3255, 1.1969, 0.1558094);

    var map1 =
        IntStream.range(0, Math.min(symbols.size(), exchangeRate.size()))
            .boxed ()
            .collect(Collectors.toMap(i -> symbols.get(i), i ->
                1.0 / exchangeRate.get(i)));

    var map2 = map1.entrySet().stream()
        .sorted(Map.Entry.comparingByKey())
        .collect(Collectors.toMap(Map.Entry::getKey, Map.Entry::getValue,
            (oldValue, newValue) -> oldValue, LinkedHashMap::new));
    map2.forEach((var k, var v)->System.out.printf("%s -> %.2f\n",k, v));

}
```

- A. EUR -> 0.84 GBP -> 0.75 USD -> 1.00 CNY -> 6.42
- B. The compilation fails.
- C. CNY -> 6.42 EUR -> 0.84 GBP -> 0.75 USD -> 1.00
- D. USD -> 1.00 GBP -> 0.75 EUR -> 0.84 CNY -> 6.42

Correct Answer: B

Result

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

compiled and executed in 0.3

```
/ques.java:15: error: cannot find symbol
    IntStream.range(0, Math.min(symbols.size(), exchangeRate.size()))
                                   ^
symbol:   variable symbols
location: class ques
/ques.java:17: error: cannot find symbol
    .collect(Collectors.toMap(i -> symbols.get(i), i ->
                                   ^
symbol:   variable symbols
location: class ques
/ques.java:18: error: incompatible types: Object cannot be converted to int
    1.0 / exchangeRate.get(i));
                                   ^
/ques.java:22: error: incompatible types: cannot infer type-variable(s) T,K#1,U,M,K#2,V#1
    .collect(Collectors.toMap(Map.Entry::getKey, Map.Entry::getValue,
                                   ^
(argument mismatch; invalid method reference
method getKey in interface Entry<K#3,V#2> cannot be applied to given types
required: no arguments
found: Object
reason: actual and formal argument lists differ in length)
where T,K#1,U,M,K#2,V#1,K#3,V#2 are type-variables:
T extends Object declared in method <T,K#1,U,M>toMap(Function<? super T,? extends K#1>,Function<? super T,? extends U>,BinaryOperator<U>,Supplier<U>>)
K#1 extends Object declared in method <T,K#1,U,M>toMap(Function<? super T,? extends K#1>,Function<? super T,? extends U>,BinaryOperator<U>,Supplier<U>>)
U extends Object declared in method <T,K#1,U,M>toMap(Function<? super T,? extends K#1>,Function<? super T,? extends U>,BinaryOperator<U>,Supplier<U>>)
M extends Map<K#1,U> declared in method <T,K#1,U,M>toMap(Function<? super T,? extends K#1>,Function<? super T,? extends U>,BinaryOperator<U>,Supplier<U>>)
K#2 extends Object declared in class LinkedHashMap
V#1 extends Object declared in class LinkedHashMap
K#3 extends Object declared in interface Entry
V#2 extends Object declared in interface Entry
Note: Some messages have been simplified; recompile with -Xdiags:verbose to get full output
4 errors
```

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