

# MOCK\_TEST\_DAY7\_Lambda\_V2

\* Required

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**What is the minimum number of lines that need to be removed to make this code compile?**

```
@FunctionalInterface
public interface Play {
    public static void baseball() {}
    private static void soccer() {}
    default void play() {}
    void fun();
} * (1 Point)
```

☐ A. 1.

☒ B. 2.

- ☐ C. 3.
- ☐ D. 4.
- ☐ E. The code compiles as is.

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**Fill in the blank so the code prints gamma. (Choose two.)**

```
var list = Arrays.asList("alpha", "beta", "gamma");  
Collections.sort(list, _____);  
System.out.println(list.get(0)); * (1 Point)
```

Please select 2 options.

- ☐ A. (s, t) -> s.compareTo(t)
- ☒ B. (s, t) -> t.compareTo(s)
- ☐ C. Comparator.comparing((String s) -> s.charAt(0))
- ☐ D. Comparator.comparing((String s) -> s.charAt(0)).reverse()
- ☒ E. Comparator.comparing((String s) -> s.charAt(0)).reversed()

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**Which of the following lambda expressions can be passed to a function of Predicate type? (Choose all that apply.) \* (1 Point)**

- ☐ A. () -> s.isEmpty()
- ☒ B. s -> s.isEmpty()
- ☐ C. String s -> s.isEmpty()
- ☒ D. (String s) -> s.isEmpty()

☐ E. (s1) -> s.isEmpty()

☐ F. (s1, s2) -> s1.isEmpty()

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**Which of the following is a valid lambda expression? \*** (1 Point)

☐ A. r -> {return 1==2}

☒ B. (q) -> true

☐ C. (x,y) -> {int test; return test>0;}

☐ D. a,b -> true

☐ E. None of the above

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**Rewrite this lambda using a method reference:**

() -> Math.random() \* (1 Point)

☐ A. Math.random

☒ B. Math::random

☐ C. Math::random()

☐ D. java.lang::Math.random

☐ E. None of the above

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**What can a lambda implement? \*** (1 Point)

- ☒ A. All functional interfaces
- ☐ B. Any interface
- ☐ C. Only functional interfaces in the JDK
- ☐ D. None of the above

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**Fill in the blanks: In the Collection interface, the method removeIf() takes a \_\_\_\_\_ , while the method forEach() takes a \_\_\_\_\_ . \***  
(1 Point)

- ☐ A. Function, Function
- ☒ B. Predicate, Consumer
- ☐ C. Predicate, Function
- ☐ D. Predicate, UnaryOperator

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**Which functional interface has a get() method? \*** (1 Point)

- ☐ A. Consumer
- ☐ B. Function
- ☒ C. Supplier

☐ D. UnaryOperator

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**Which method is available on both List and Stream implementations? \***  
(1 Point)

☐ A. filter()

☒ B. forEach()

☐ C. replace()

☐ D. sort()

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**How many lines does this code output? \*** (1 Point)

```
1: import java.util.*;
2:
3: public class PrintNegative {
4:     public static void main(String[] args) {
5:         List<String> list = new ArrayList<>();
6:         list.add("-5");
7:         list.add("0");
8:         list.add("5");
9:         list.removeIf(e -> e < 0);
10:        list.forEach(x -> System.out.println(x));
11:    }
12: }
```

☐ A. One.

☐ B. Two.

☐ C. Three.

☐ D. None. The code does not compile.

☒ E. None. The code throws an exception at runtime.

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