Given code of Test.java file:

```
import java.util.stream.Stream;

public class Test {
    public static void main(String[] args) {
        Stream<Integer> stream = Stream.iterate(1, i -> i + 1);
        System.out.println(stream.anyMatch(i -> i > 1));
    }
}
```

- A true is printed on to the console and code runs infinitely
- B true
- C Nothing is printed on to the console as code runs infinitely
- D false

F - 1.2.3.4.5.

```
Given code of Test.java file:
import java.util.Arrays;
import java.util.List;
import java.util.function.Predicate;
public class Test {
    public static void main(String[] args) {
        List<Integer> list = Arrays.asList(-80, 100, -40, 25, 200);
        Predicate<Integer> predicate = num -> {
            int ctr = 1;
            boolean result = num > 0;
            System.out.print(ctr++ + ".");
            return result;
        };
        list.stream().filter(predicate).findFirst();
    }
}
What will be the result of compiling and executing Test class?
A - 1.
B - 1.1.1.1.1.
C - 1.1.
D - Nothing is printed on to the console.
E - 1.2.
```

Given code of Test.java file:

```
import java.util.OptionalDouble;

class MyException extends RuntimeException{}

public class Test {
    public static void main(String[] args) {
        OptionalDouble optional = OptionalDouble.empty();
        System.out.println(optional.orElseThrow(MyException::new));
    }
}
```

- A Compilation error
- B An instance of NoSuchElementException is thrown at runtime
- C An instance of MyException is thrown at runtime
- D An instance of NullPointerException is thrown at runtime
- E An instance of RuntimeException is thrown at runtime
- F null

Given code of Test.java file:

```
import java.util.stream.IntStream;

public class Test {
    public static void main(String[] args) {
        int res = 1;
        IntStream stream = IntStream.rangeClosed(1, 5);
        /*INSERT*/
    }
}
```

Which of the following options can replace /*INSERT*/ such that on executing Test class, 120 is printed in the output? NOTE: 120 is the multiplication of numbers from 1 to 5. Select 2 options.

- A System.out.println(stream.reduce(1, Integer::multiply));
- B System.out.println(stream.reduce(1, (i, j) -> i* j));
- C System.out.println(stream.reduce(res, (i, j) -> i * j));
- D System.out.println(stream.reduce(0, Integer::multiply));
- E System.out.println(stream.reduce(0, (i, j) -> i* j));

Given code of Test.java file:

What will be the result of compiling and executing Test class?

A - 0

B - 4

C - 5

D - 6

```
Given code of Test.java file:
import java.util.ArrayList;
import java.util.List;
class Point {
   int x;
    int y;
    Point(int x, int y) {
        this.x = x;
        this.y = y;
    public String toString() {
       return "Point(" + x + ", " + y + ")";
    boolean filter() {
       return this.x == this.y;
public class Test {
    public static void main(String[] args) {
       List<Point> list = new ArrayList<>();
        list.add(new Point(0, 0));
        list.add(new Point(1, 2));
        list.add(new Point(-1, -1));
        list.stream().filter(Point::filter).forEach(System.out::println);
         //Line n1
    }
What will be the result of compiling and executing Test class?
A -
Point(0, 0)
Point(-1, -1)
В-
Point(0, 0)
Point(1, 2)
Point(-1, -1)
C - Line n1 causes compilation error
D - Point(1, 2)
```

Given code of Test.java file:

```
import java.util.ArrayList;
import java.util.List;

public class Test {
    public static void main(String[] args) {
        List<String> list = new ArrayList<>();
        System.out.println(list.stream().anyMatch(s -> s.length() > 0));
        System.out.println(list.stream().allMatch(s -> s.length() > 0));
        System.out.println(list.stream().noneMatch(s -> s.length() > 0));
        System.out.println(list.stream().noneMatch(s -> s.length() > 0));
    }
}
```

What will be the result of compiling and executing Test class?

```
A-
false
true
B-
true
true
C-
true
false
false
D-
false
false
```

false

Given code of Test.java file:

```
import java.util.stream.IntStream;

public class Test {
    public static void main(String[] args) {
        int sum = IntStream.rangeClosed(1,3).map(i -> i * i)
            .map(i -> i * i).sum();
        System.out.println(sum);
    }
}
```

What will be the result of compiling and executing Test class?

A - 98

B - 6

C - None of the other options

D - 14

```
Given code of Test.java file:
import java.util.Arrays;
import java.util.List;
import java.util.stream.Collectors;
class Book {
    String title;
    String author;
    double price;
    public Book(String title, String author, double price) {
        this.title = title;
        this.author = author;
       this.price = price;
    public String getAuthor() {
        return this.author;
    public String toString() {
       return "{" + title + "," + author + "," + price + "}";
}
public class Test {
    public static void main(String[] args) {
       List<Book> books = Arrays.asList(
                new Book ("Head First Java", "Kathy Sierra", 24.5),
                new Book ("OCP", "Udayan Khattry", 20.99),
new Book ("OCA", "Udayan Khattry", 14.99));
        books.stream().collect(Collectors.groupingBy(Book::getAuthor)).forEach()
         -> System.out.println(a));
What will be the result of compiling and executing Test class?
A - Runtime Exception
B -
Kathy Sierra
Udayan Khattry
C -
[{Head First Java, Kathy Sierra, 24.5}]
[{OCP,Udayan Khattry,20.99}, {OCA,Udayan Khattry,14.99}]
```

Given code of Test.java file:

```
import java.util.Optional;

public class Test {
    public static void main(String[] args) {
        Optional<Integer> optional = Optional.ofNullable(null);
        System.out.println(optional);
    }
}
```

- A Optional[0]
- B Optional.empty
- C NullPointerException is thrown at runtime
- D Optional[null]

Given code of Test.java file:

```
import java.util.HashMap;
import java.util.Map;

public class Test {
    public static void main(String[] args) {
        Map<Integer, String> map = new HashMap<>();
        map.put(1, "ONE");
        map.put(2, "TWO");
        map.put(3, "THREE");

        System.out.println(map.stream().count());
    }
}
```

- A 3
- **B** Runtime Exception
- C Compilation error
- D 6

Given code of Test.java file:

- A Optional[1st4th]
- B 1st4th
- C 2nd3rd
- D Optional[2nd3rd]

```
Given code of Test.java file:
import java.util.ArrayList;
import java.util.List;
class Rope {
   int length;
   String color;
   Rope(int length, String color) {
       this.length = length;
       this.color = color;
   public String toString() {
       return "Rope [" + color + ", " + length + "]";
   static class RedRopeFilter {
       boolean filter(Rope rope) {
           return rope.color.equalsIgnoreCase("Red");
   }
}
public class Test {
   public static void main(String[] args) {
       List<Rope> list = new ArrayList<>();
       list.add(new Rope(5, "red"));
       list.add(new Rope(10, "Red"));
       list.add(new Rope(7, "RED"));
       list.add(new Rope(10, "green"));
       list.add(new Rope(7, "Blue"));
        list.stream().filter(new
        Rope.RedRopeFilter()::filter).forEach(System.out::println);
        //Line n1
   }
}
What will be the result of compiling and executing Test class?
A -
Rope [red, 5]
Rope [Red, 10]
Rope [RED, 7]
В-
Rope [green, 10]
```

```
Rope [Blue, 7]

C -

Rope [red, 5]
Rope [Red, 10]
Rope [RED, 7]
Rope [green, 10]
Rope [Blue, 7]

D -

Rope [Red, 10]

E - Line n1 causes compilation error
```

Given code of Test.java file:

```
import java.util.Arrays;
import java.util.stream.Stream;

public class Test {
    public static void main(String[] args) {
        Stream<Integer> stream = Arrays.asList(1,2,3,4,5).stream();
        System.out.println(stream.sum());
    }
}
```

What will be the result of compiling and executing Test class?

A - Runtime Exception

B - 15

C - Compilation error

```
Given code of Test.java file:
import java.util.Arrays;
import java.util.List;
import java.util.Map;
import java.util.stream.Collectors;
enum Color {
   RED, YELLOW, GREEN
class TrafficLight {
   String msg;
   Color color;
   TrafficLight(String msg, Color color) {
       this.msg = msg;
       this.color = color;
   public String getMsg() {
       return msg;
   public Color getColor() {
       return color;
   public String toString() {
       return "{" + color + ", " + msg + "}";
}
public class Test {
   public static void main(String[] args) {
       TrafficLight tl1 = new TrafficLight("Go", Color.GREEN);
       TrafficLight tl2 = new TrafficLight("Go Now!", Color.GREEN);
       TrafficLight tl3 = new TrafficLight("Ready to stop",
       Color.YELLOW);
       TrafficLight tl4 = new TrafficLight("Slow Down",
       Color.YELLOW);
       TrafficLight tl5 = new TrafficLight("Stop", Color.RED);
       List<TrafficLight> list = Arrays.asList(tl1, tl2, tl3, tl4,
       tl5);
       Map<Color, List<String>> map = list.stream()
        .collect(Collectors.groupingBy(TrafficLight::getColor,
                       Collectors.mapping(TrafficLight::getMsg,
        Collectors.toList()));
```

```
System.out.println(map.get(Color.YELLOW));
}
```

- A [Slow Down]
- B Some text containing @ symbol
- C [Ready to stop, Slow Down]
- D [Ready to stop]

Given code of Test.java file:

```
import java.util.OptionalInt;

class MyException extends Exception{}

public class Test {
    public static void main(String[] args) {
        OptionalInt optional = OptionalInt.empty();
        System.out.println(optional.orElseThrow(MyException::new));
    }
}
```

- A An instance of MyException is thrown at runtime
- B An instance of RuntimeException is thrown at runtime
- C Compilation error
- D null
- E An instance of NoSuchElementException is thrown at runtime
- F An instance of NullPointerException is thrown at runtime

Given code of Test.java file:

```
import java.util.stream.IntStream;

public class Test {
    public static void main(String[] args) {
        int res = 1;
        IntStream stream = IntStream.rangeClosed(1, 4);

        System.out.println(stream.reduce(res++, (i, j) -> i * j));
    }
}
```

- A 6
- B Compilation error as res should be effectively final
- C 48
- D 12
- E 24

```
Given code of Test.java file:
```

```
import java.util.Arrays;
import java.util.List;
import java.util.function.Predicate;
public class Test {
   public static void main(String[] args) {
       List<Integer> list = Arrays.asList(-80, 100, -40, 25, 200);
       Predicate<Integer> predicate = num -> {
           int ctr = 1;
           boolean result = num > 0;
           System.out.print(ctr++ + ".");
           return result;
       };
       list.stream().filter(predicate).sorted();
   }
}
What will be the result of compiling and executing Test class?
A - 1.2.3.4.5.
```

B - 1.1.

C - 1.

D - 1.2.

E - Nothing is printed on to the console

F - 1.1.1.1.1.

Given code of Test.java file:

```
import java.util.List;
import java.util.Map;
import java.util.stream.Collectors;
import java.util.stream.Stream;
class Certification {
   String studId;
   String test;
   int marks;
   Certification(String studId, String test, int marks) {
       this.studId = studId;
       this.test = test;
       this.marks = marks;
   public String toString() {
       return "{" + studId + ", " + test + ", " + marks + "}";
   public String getStudId() {
       return studId;
   public String getTest() {
       return test;
   public int getMarks() {
       return marks;
}
public class Test {
   public static void main(String[] args) {
       Certification c1 = new Certification("S001", "OCA", 87);
       Certification c2 = new Certification("S002", "OCA", 82);
       Certification c3 = new Certification("S001", "OCP", 79);
       Certification c4 = new Certification("S002", "OCP", 89);
       Certification c5 = new Certification("S003", "OCA", 60);
       Certification c6 = new Certification("S004", "OCA", 88);
       Stream<Certification> stream = Stream.of(c1, c2, c3, c4, c5,
       Map<Boolean, List<Certification>> map =
               stream.collect(Collectors.partitioningBy(s ->
        s.equals("OCA")));
       System.out.println(map.get(true));
   }
```

What will be the result of compiling and executing Test class?

```
A - [{$001, OCP, 79}, {$002, OCP, 89}]
```

B - [{\$001, OCA, 87}, {\$002, OCA, 82}, {\$001, OCP, 79}, {\$002, OCP, 89}, {\$003, OCA, 60}, {\$004, OCA, 88}]

C - []

D - [{\$001, OCA, 87}, {\$002, OCA, 82}, {\$003, OCA, 60}, {\$004, OCA, 88}]

Given code of Test.java file:

```
import java.util.ArrayList;
import java.util.List;
class MyString {
   String str;
   MyString(String str) {
       this.str = str;
}
public class Test {
   public static void main(String[] args) {
       List<MyString> list = new ArrayList<>();
       list.add(new MyString("Y"));
       list.add(new MyString("E"));
       list.add(new MyString("S"));
       list.stream().map(s -> s).forEach(System.out::print);
   }
}
```

Which of the following statements are correct?

- A Above code causes compilation error
- B Above code terminates successfully without printing anything on to the console
- C On execution, above code prints "YES" on to the console
- D Above code terminates successfully after printing text other than "YES" on to the console

Given code of Test.java file:

```
import java.util.Optional;
import java.util.stream.Stream;

public class Test {
    public static void main(String[] args) {
        Stream<Number> stream = Stream.of();
        Optional<Number> optional = stream.findFirst();
        System.out.println(optional.orElse(-1));
    }
}
```

What will be the result of compiling and executing Test class?

A - null

B - Optional.empty

C - 0

D--1

D - Line 1, Line 2 and Line 3 print same output

```
Given code of Test.java file:
import java.util.Arrays;
import java.util.Comparator;
import java.util.List;
public class Test {
    public static void main(String[] args) {
       List<Integer> list = Arrays.asList(10, 20, 8);
        System.out.println(list.stream().max(Comparator.comparing(a
        -> a)).get()); //Line 1
        System.out.println(list.stream().max(Integer::compareTo).get());
         //Line 2
        System.out.println(list.stream().max(Integer::max).get());
        //Line 3
    }
}
Which of the following statement is true?
A - Line 1 and Line 3 print same output
B - Line 1 and Line 2 print same output
C - Line 2 and Line 3 print same output
```

Given code of Test.java file:

```
import java.util.stream.Stream;

public class Test {
    public static void main(String[] args) {
        System.out.println(Stream.of(10, 0, -10).sorted().findAny().orElse(-1));
    }
}
```

Which of the following statements are true about the execution of Test class?

- A It will always print 0 on to the console.
- B It can print any number from the stream.
- C It will always print 10 on to the console.
- D It will never print -1 on to the console.
- E It will always print -10 on to the console.

Given code of Test.java file:

```
import java.util.ArrayList;
import java.util.List;

public class Test {
    public static void main(String[] args) {
        int ref = 10;
        List<Integer> list = new ArrayList<>();
        list.stream().anyMatch(i -> {
            System.out.println("HELLO");
            return i > ref;
        });
    }
}
```

What will be the result of compiling and executing Test class?

A - Program executes successfully but nothing is printed on to the console

B - HELLO

C - Compilation error

Given code of Test.java file:

```
import java.util.Optional;

public class Test {
    public static void main(String[] args) {
        Optional<Integer> optional = Optional.of(null); //Line 8
        System.out.println(optional.orElse(-1)); //Line 9
    }
}
```

What will be the result of compiling and executing Test class?

A - Line 9 throws NullPointerException

B - null

C - -1

D - Line 8 throws NullPointerException

Which of the following are Primitive variant of Optional class?

- A ByteOptional
- B OptionalBoolean
- C OptionalDouble
- D IntOptional
- E OptionalFloat

Given code of Test.java file:

What will be the result of compiling and executing Test class?

```
A - [java, python, c, c++]
B - [c, c++, java, python]
C - [c++, c, java, python]
```

D - Order of elements can't be predicted in the output.

Given code of Test.java file:

```
import java.util.stream.Stream;

public class Test {
    public static void main(String[] args) {
        Stream<String> stream = Stream.of("ocp");
        stream._____(s -> s.chars()).forEach(i -> System.out.print((char)i));
    }
}
```

Which code snippet, when filled into the blank, allows the class to compile?

- A flatMap
- B flatMapToDouble
- C flatMapToLong
- D flatMapToInt

Given code of Test.java file:

```
import java.util.ArrayList;
import java.util.Comparator;
import java.util.List;
class Fruit implements Comparable<Fruit>, Comparator<Fruit> {
   String name;
   String countryOfOrigin;
   Fruit() {}
   Fruit(String name, String countryOfOrigin) {
       this.name = name;
       this.countryOfOrigin = countryOfOrigin;
   public String toString() {
       return name + ":" + countryOfOrigin;
   @Override
   public int compareTo(Fruit o) {
       return this.name.compareToIgnoreCase(o.name);
   @Override
   public int compare(Fruit o1, Fruit o2) {
       return
       o1.countryOfOrigin.compareToIgnoreCase(o2.countryOfOrigin);
   public static int comp(String s1, String s2) {
       return s2.compareToIgnoreCase(s1);
   }
}
public class Test {
   public static void main(String[] args) {
       List<Fruit> list = new ArrayList<>();
       list.add(new Fruit("Olive", "Middle East"));
       list.add(new Fruit("Mango", "India"));
       list.add(new Fruit("Cranberry", "North America"));
       list.add(new Fruit("Watermelon", "Africa"));
       list.add(new Fruit("Peach", "China"));
       list.add(new Fruit("Fig", "Middle East"));
       list.add(new Fruit("Blueberry", "North America"));
       /* INSERT */
   }
}
```

Which of the following two options can replace /* INSERT */ such that output is:

Cranberry:North America
Blueberry:North America
Olive:Middle East
Fig:Middle East
Mango:India
Peach:China
Watermelon:Africa

- A list.stream().sorted(Comparator.comparing(f -> f.countryOfOrigin, Fruit::comp)).forEach(System.out::println);
- B list.stream().sorted(new Fruit().reversed()).forEach(System.out::println);
- C list.stream().sorted(new Fruit()).forEach(System.out::println);
- D list.stream().sorted().forEach(System.out::println);

Given code of Test.java file:

s2.length())

```
import java.util.stream.Stream;

public class Test {
    public static void main(String[] args) {
        Stream<String> stream = Stream.of("d", "cc", "bbb", "aaaa");
        stream.sorted().forEach(System.out::println);
    }
}

Which of the following needs to be done, so that output is:

d
cc
bbb
aaaa
A - Replace stream.sorted() with stream.sorted((s1,s2) -> s1.length() -
```

- B No need to make any changes, on execution given code prints expected result
- C Replace stream.sorted() with stream.sorted((s1,s2) -> s2.length() s1.length())

Given code of Test.java file:

```
import java.util.Optional;
class Message {
   private String msg = "Good Morning!";
   public Message(String msg) {
       this.msg = msg;
   public Message() {super();}
   public String getMsg() {
       return msg;
   public String toString() {
       return msg;
}
public class Test {
   public static void main(String[] args) {
       Message message = null;
       Optional<Message> optional = Optional.ofNullable(message);
       System.out.println(optional.isPresent() ?
       optional.get().getMsg() : new Message());
}
What will be the result of compiling and executing Test class?
```

- A null
- B Text containing @ symbol
- C NullPointerException is thrown at runtime
- D Good Morning!

Given code of Test.java file:

```
import java.util.ArrayList;
import java.util.List;

public class Test {
    public static void main(String[] args) {
        int ref = 10;
        List<Integer> list = new ArrayList<>();
        list.stream().anyMatch(i -> {
            System.out.println("HELLO");
            return i > ++ref;
        });
    }
}
```

- A HELLO
- B Compilation error
- C Program executes successfully but nothing is printed on to the console

Given code of Test.java file:

```
import java.util.Arrays;
import java.util.List;
import java.util.function.Predicate;

public class Test {
    public static void main(String[] args) {
        List<Integer> list = Arrays.asList(-80, 100, -40, 25, 200);
        Predicate<Integer> predicate = num -> {
            int ctr = 1;
            boolean result = num > 0;
            System.out.print(ctr++ + ".");
            return result;
        };
        list.stream().filter(predicate).count();
    }
}
```

What will be the result of compiling and executing Test class?

A - 1.2.3.

B - 2.4.5.

C - 1.1.1.

D - 1.1.1.1.1.

E - 1.2.3.4.5.

Given code of Test.java file:

- A 3
- B Compilation error
- C Runtime Exception

Given code of Test.java file:

- A NullPointerException is thrown at runtime
- B OneTwoThreenull
- C nullOneTwoThree
- D OneTwoThree

Given code of Test.java file:

- A NullPointerException is thrown at runtime
- B Compilation error
- C true
- D false

```
Given code of Test.java file:
```

```
import java.util.Optional;
import java.util.function.Predicate;
import java.util.stream.Stream;
public class Test {
   public static void main(String[] args) {
       Stream<String> stream = Stream.of("and", "Or", "not",
        "Equals", "unary", "binary");
       Optional<String> optional = stream.filter(
        ((Predicate<String>)Test::isFirstCharVowel).negate()).findFirst();
       System.out.println(optional.get());
   private static boolean isFirstCharVowel(String str) {
       str = str.substring(0, 1).toUpperCase();
       switch(str) {
           case "A":
           case "E":
           case "I":
           case "0":
           case "U":
               return true;
       }
       return false;
   }
What will be the result of compiling and executing Test class?
A - not
B - Or
C - and
D - binary
```

```
Given code of Test.java file:
```

D - [python, java, c++, c]

Given code of Test.java file:

```
import java.util.Map;
import java.util.TreeMap;
import java.util.function.Function;
import java.util.stream.Collectors;
import java.util.stream.Stream;
class Person {
   int id;
   String name;
   Person(int id, String name) {
       this.id = id;
       this.name = name;
   public String toString() {
       return "{" + id + ", " + name + "}";
   public boolean equals(Object obj) {
       if(obj instanceof Person) {
           Person p = (Person) obj;
           return this.id == p.id;
       return false;
   public int hashCode() {
       return new Integer(this.id).hashCode();
}
public class Test {
   public static void main(String[] args) {
       Person p1 = new Person(1010, "Sean");
       Person p2 = new Person(2843, "Rob");
       Person p3 = new Person(1111, "Lucy");
       Stream<Person> stream = Stream.of(p1, p2, p3);
       Map<Integer, Person> map = stream.collect(/*INSERT*/);
       System.out.println(map.size());
}
```

Which of the following statements can replace /*INSERT*/ such that output is 3? 1. Collectors.toMap(p -> p.id, Function.identity()) 2. Collectors.toMap(p -> p.id, p -> p) 3. Collectors.toCollection(TreeMap::new)

- B Both 1 & 2
- C Both 2 & 3
- D Only 1
- E Only 2
- F All 1, 2 & 3

Given code of Test.java file:

```
import java.util.stream.Stream;

public class Test {
    public static void main(String[] args) {
        Stream<StringBuilder> stream = Stream.of();
        stream.map(s -> s.reverse()).forEach(System.out::println);
    }
}
```

- A NullPointerException is thrown at runtime
- B Compilation error
- C ClassCastException is thrown at runtime
- D Program executes successfully but nothing is printed on to the console

Given code of Test.java file:

```
import java.util.Arrays;
import java.util.stream.Stream;

public class Test {
    public static void main(String[] args) {
        Stream<Double> stream = Arrays.asList(1.8, 2.2, 3.5).stream();
        /*INSERT*/
    }
}
```

Which of the following options can replace /*INSERT*/ such that on executing Test class, all the stream elements are added and result is printed on to the console?

Select ALL that apply.

- A System.out.println(stream.reduce(0.0, (d1, d2) -> d1 + d2));
- B System.out.println(stream.sum());
- C System.out.println(stream.reduce(0, (di, d2) -> di + d2));
- D System.out.println(stream.reduce(9, Double::sum));
- E System.out.println(stream.reduce(0.0, Double::sum));

Given code of Test.java file:

```
import java.util.ArrayList;
import java.util.Arrays;
import java.util.List;

public class Test {
    public static void main(String[] args) {
        List<String> list = new ArrayList<>(Arrays.asList("Z", "Y", "X"));
        list.stream().sorted().findFirst().get();
        System.out.println(list.get(2));
    }
}
```

- A Z
- **B** Runtime Exception
- C X
- D Y

Given code of Test.java file:

```
import java.util.Random;
import java.util.stream.IntStream;

public class Test {
    public static void main(String[] args) {
        IntStream stream = IntStream.generate(() -> new
        Random().nextInt(100))

        .limit(5);
        stream.filter(i -> i > 0 && i <
            10).findFirst()._____;
    }
}</pre>
```

Which code snippet, when filled into the blank, allows the class to compile?

```
A-get()
```

B - ifPresent(System.out::println)

```
C - map(i -> i * i)
```

D - forEach(System.out::println)

Given code of Test.java file:

Which of the following needs to be done, so that output is:

a d bb mm www

- A No need to make any changes, on execution given code prints expected result.
- B Replace stream.sorted(lengthComp) with stream.sorted(lengthComp.thenComparing(String::compareTo))
- C Replace stream.sorted(lengthComp) with stream. sorted(lengthComp.reversed())

Given code of Test.java file:

```
import java.util.stream.IntStream;

public class Test {
    public static void main(String[] args) {
        IntStream stream = IntStream.rangeClosed(1, 20).filter(i -> i % 2 == 0);
        System.out.println(stream.summaryStatistics());
    }
}
```

Which of the following statements is true for above code?

- A On execution only sum and average data will be printed on to the console
- B On execution a text containing @ symbol will be printed on to the console
- C On execution only max, min and count data will be printed on to the console
- D On execution sum, average, max, min and count data will be printed on to the console

Given code of Test.java file:

- A-red
- B green
- C yellow
- D blue

Given code of Test.java file:

What will be the result of compiling and executing Test class?

A - false

B - true

Given code of Test.java file:

- A Program executes successfully but nothing is printed on to the console
- B Compilation error
- C ClassCastException is thrown at runtime
- D NullPointerException is thrown at runtime

Given code of Test.java file:

```
import java.util.Optional;
import java.util.stream.Stream;

public class Test {
    public static void main(String[] args) {
        Optional<Integer> optional = Stream.of(10).findFirst();
        System.out.println(optional);
    }
}
```

- A Optional[10]
- B Text containing @ symbol
- C 10

Given code of Test.java file:

What will be the result of compiling and executing Test class?

```
A - 42 8 -9 23 55
B - 55 42 23 8 -9
C - 55 23 -9 8 42
```

D - -9 8 23 42 55

```
Given code of Test.java file:
import java.util.List;
import java.util.Map;
import java.util.stream.Collectors;
import java.util.stream.Stream;
class Certification {
   String studId;
   String test;
   int marks;
   Certification(String studId, String test, int marks) {
       this.studId = studId;
       this.test = test:
       this.marks = marks;
   public String toString() {
       return "{" + studId + ", " + test + ", " + marks + "}";
   public String getStudId() {
       return studId;
   public String getTest() {
       return test;
   public int getMarks() {
       return marks;
}
public class Test {
   public static void main(String[] args) {
       Certification c1 = new Certification("S001", "OCA", 87);
       Certification c2 = new Certification("S002", "OCA", 82);
       Certification c3 = new Certification("S001", "OCP", 79);
       Certification c4 = new Certification("S002", "OCP", 89);
       Certification c5 = new Certification("S003", "OCA", 60);
       Certification c6 = new Certification("S004", "OCA", 88);
       Stream<Certification> stream = Stream.of(c1, c2, c3, c4, c5,
       Map<String, List<Certification>> map =
        stream.collect(Collectors.groupingBy(Certification::getTest));
```

System.out.println(map.get("OCP"));

}

}

What will be the result of compiling and executing Test class?

A - [{\$001, OCP, 79}, {\$002, OCP, 89}]

B - [{\$001, OCA, 87}, {\$002, OCA, 82}, {\$003, OCA, 60}, {\$004, OCA, 88}]

C - [{\$001, OCA, 87}, {\$002, OCA, 82}, {\$001, OCP, 79}, {\$002, OCP, 89}, {\$003, OCA, 60}, {\$004, OCA, 88}]

D - []

Given code of Test.java file:

```
A -

1

1

B -

5

6

C -

10

12

D - Compilation error

E -

0

0
```

Given code of Test.java file:

Which of the following needs to be done, so that output is 7?

- A Replace stream.map(s -> s.length()) with stream.mapToInt(s -> s.length())
- B No need to make any changes, on execution given code prints 7 on to the console
- C Replace text.split(" ") with text.split(",")
- D Replace stat.getMax() with stat.getCount()

```
Given code of Test.java file:
```

TRUE

```
import java.util.stream.Stream;
public class Test {
   public static void main(String[] args) {
       Stream.of(true, false, true).map(b -> b.toString()
               .toUpperCase()).peek(System.out::println).count();
}
What will be the result of compiling and executing Test class?
A -
TRUE
FALSE
TRUE
В-
true
false
true
C -
true
false
true
D-
TRUE
FALSE
```

Given code of Test.java file:

```
import java.util.Random;
import java.util.stream.IntStream;

public class Test {
    public static void main(String[] args) {
        IntStream stream = new Random().ints(1, 7).limit(2);
        System.out.println(stream.max().getAsInt());
    }
}
```

Above code compiles and executes successfully and generates random integers.

Which of the following is not the possible output of above code?

- A 6
- B 4
- C 5
- D 7

Given code of Test.java file:

```
import java.time.LocalDate;
import java.util.Optional;
import java.util.stream.Stream;

public class Test {
    public static void main(String[] args) {
        Stream<LocalDate> stream = Stream.of(LocalDate.of(2018, 1, 1), LocalDate.of(2018, 1, 1));
        Optional<LocalDate> optional = stream.distinct().findAny();

        System.out.println(optional.isPresent() + " : " + optional.get());
    }
}
```

What will be the result of compiling and executing Test class?

A - false: 2018-1-1

B - true: 2018-01-01

C - false: 2018-01-01

D - true: 2018-1-1

Given code of Test.java file:

```
import java.util.stream.Stream;

public class Test {
    public static void main(String[] args) {
        Stream<Double> stream = Stream.of(9.8, 2.3, -3.0);
        System.out.println(stream.min());
    }
}
```

- A -3.0
- B Compilation error
- C Runtime Exception
- D 2.3

Given code of Test.java file:

What will be the result of compiling and executing Test class?

```
A-
John
Peter
bonita
B-
bonita
John
Peter
C-
John
bonita
Peter
D-
Peter
```

bonita John

Given code of Test.java file:

```
import java.util.stream.Stream;
class Employee {
   private String name;
   private double salary;
   public Employee(String name, double salary) {
       this.name = name;
       this.salary = salary;
   public String getName() {
       return name;
   public double getSalary() {
       return salary;
   public String toString() {
       return "{" + name + ", " + salary + "}";
   public static int salaryCompare(double d1, double d2) {
       return new Double(d2).compareTo(d1);
}
public class Test {
   public static void main(String[] args) {
       Stream<Employee> employees = Stream.of(new Employee("Jack",
               new Employee("Lucy", 12000), new Employee("Tom",
        7000));
       highestSalary(employees);
   private static void highestSalary(Stream<Employee> emp) {
       System.out.println(emp.map(e ->
       e.getSalary()).max(Employee::salaryCompare));
}
What will be the result of compiling and executing Test class?
```

A - Optional[10000.0]

B - Optional.empty

- C Optional[12000.0]
- D Optional[7000.0]

Given code of Test.java file:

```
import java.util.Arrays;
import java.util.stream.Stream;

public class Test {
    public static void main(String[] args) {
        String [] arr1 = {"Virat", "Rohit", "Shikhar", "Dhoni"};
        String [] arr2 = {"Bumrah", "Pandya", "Sami"};
        String [] arr3 = {};

        Stream<String[]> stream = Stream.of(arr1, arr2, arr3);
        stream.flatMap(s -> Arrays.stream(s)).sorted().forEach(s -> System.out.print(s + " "));
    }
}
```

- A Bumrah Dhoni Pandya Rohit Sami Shikhar Virat
- B Virat Rohit Shikhar Dhoni Bumrah Pandya Sami
- C Virat Rohit Shikhar Dhoni Bumrah Pandya Sami null
- D Bumrah Dhoni Pandya Rohit Sami Shikhar Virat null
- E null Bumrah Dhoni Pandya Rohit Sami Shikhar Virat

```
Given:
import java.util.Arrays;
import java.util.List;
import java.util.function.UnaryOperator;
public class Test {
    public static void main(String[] args) {
        /* INSERT */
        List<Character> vowels = Arrays.asList('A', 'E', 'I', '0',
        vowels.stream().map(x ->
        operator.apply(x)).forEach(System.out::print); //Line n1
    }
}
Line n1 is causing compilation error as variable 'operator' is not found.
Which of the following two options can replace /* INSERT */ such that
output is: BFJPV?
A - UnaryOperator operator = c -> (char) c (c.charValue() + 1);
B - UnaryOperator operator = c \rightarrow c + 1;
C - UnaryOperator operator = c -> c + 1;
D - UnaryOperator operator = c -> c.charValue() + 1;
E - Function < Character, Character > operator = x \rightarrow (char)(x + 1);
F - Function < Character, Integer > operator = x -> x + 1;
```

Given code of Test.java file:

- A Compilation error
- B Nothing is printed and program runs infinitely
- C Optional[1.0] is printed and program terminates successfully
- D Optional[1.0] is printed and program runs infinitely

Given code of Test.java file:

```
import java.util.stream.LongStream;

public class Test {
    public static void main(String[] args) {
        LongStream stream = LongStream.empty();
        System.out.println(stream.average());
    }
}
```

- A Runtime exception
- B null
- C OptionalDouble.empty
- D 0.0

Given code of Test.java file:

D - false: 0

E - false : null

Given code of Test.java file:

```
import java.util.Optional;

public class Test {
    public static void main(String[] args) {
        Optional<Integer> optional = Optional.of(null);
        System.out.println(optional);
    }
}
```

- A Optional[0]
- B NullPointerException is thrown at runtime
- C Optional.empty
- D Optional[null]

Given code of Test.java file:

What will be the result of compiling and executing Test class?

A - Program executes successfully but nothing is printed on to the console

Btrue

false true

C - Compilation error

D-

TRUE

FALSE

TRUE

Given code of Test.java file:

What will be the result of compiling and executing Test class?

A - Line 9 causes Compilation error

B - Optional[7.5]

C - 7.5

Given code of Test.java file:

```
import java.util.Optional;
import java.util.stream.Stream;

public class Test {
    public static void main(String[] args) {
        Stream<String> stream = Stream.of("a", "as", "an", "and");
        Optional<String> first = stream.findFirst();
        if(first.ifPresent()) {
            System.out.println(first.get());
        }
    }
}
```

What will be the result of compiling and executing Test class?

A - Any element from the stream is printed

B - Compilation error

C - a

D - Runtime Exception