Question 1

Not yet answered

Marked out of 1.00

What is true about the following code? (Choose all that apply)

```
public class Bear {
protected void finalize() {
System.out.println("Roar!");
}
public static void main(String[] args) {
Bear bear = new Bear();
bear = null;
System.gc();
} }
```

Select one or more:

- [ ] **a. Garbage collection might or might not run.**
- [x] **b. Garbage collection is guaranteed to run.**
- [ ] **c. Garbage collection is guaranteed not to run.**
- [ ] **d. finalize() is guaranteed not to be called.**
- [ ] **e. finalize() is guaranteed to be called.**
- [ ] **f. The code does not compile.**
- [ ] **g. finalize() might or might not be called**

Question 2

Not yet answered

Marked out of 1.00

What is the output of the following code snippet?

```
3: int x = 1, y = 15;
4: while x < 10
5: y—;
6: x++;
7: System.out.println(x+", "+y);
```

Select one or more:

- ☑ **a. 10, 6**
- ☐ **b. The code will not compile because of line 3.**
- ☐ **c. 10, 5**
- ☐ **d. 11, 5**
- ☐ **e. The code contains an infinite loop and does not terminate.**
- ☐ **f. The code will not compile because of line 4.**

Question 3

Not yet answered

Marked out of 1.00

What is the result of the following code? (Choose all that apply)

```
13: String a = "";
14: a += 2;
15: a += 'c';
16: a += false;
17: if ( a == "2cfalse") System.out.println("==");
18: if ( a.equals("2cfalse")) System.out.println("equals");
```

Select one or more:

- ☐ **a. An exception is thrown.**
- ☐ **b. Compile error on line 15.**
- ☐ **c. Compile error on line 16.**
- ☑ **d. equals**
- ☐ **e. Compile error on another line.**
- ☐ **f. ==**
- ☐ **g. Compile error on line 14.**

What is the result of the following statements?

1: public class Test {

2: public void print(byte x) {

3: System.out.print("byte");

4: }

5: public void print(int x) {

6: System.out.print("int");

7: }

8: public void print(float x) {

9: System.out.print("float");

10: }

11: public void print(Object x) {

12: System.out.print("Object");

13: }

14: public static void main(String[] args) {

15: Test t = new Test();

16: short s = 123;

17: t.print(s);

18: t.print(true);

19: t.print(6.789);

20: }

21: }

Select one or more:

☐ **a. bytefloatObject**

☐ **b. intObjectfloat**

☐ **c. byteObjectfloat**

☐ **d. intfloatObject**

☐ **e. intObjectObject**

☐ **f. byteObjectObject**

What is the output of the following code?

1: class Arthropod

2: public void printName(double input) { System.out

.print("Arthropod"); }

3: }

4: public class Spider extends Arthropod {

5: public void printName(int input) { System.out.print("Spider"); }

6: public static void main(String[] args) {

7: Spider spider = new Spider();

8: spider.printName(4);

9: spider.printName(9.0);

10: }

11: }

Select one or more:

☐ a. **ArthropodSpider**

☐ b. **ArthropodArthropod**

☐ c. **The code will not compile because of line 9.**

☐ d. **SpiderArthropod**

☐ e. **The code will not compile because of line 5.**

☐ f. **SpiderSpider**

What is the output of the following?

Stream<String> stream = Stream.iterate("", (s) -> s + "1");

System.out.println(stream.limit(2).map(x -> x + "2"));

Select one or more:

☐ a. 212112

☐ b. The code does not compile.

☐ c. 12112

☐ d. The code hangs.

☐ e. java.util.stream.ReferencePipeline$3@4517d9a3

☐ f. An exception is thrown.

☐ g. 212

What is the output of the following program?


```
1: public class Cat {
2: public String name;
3: public void parseName() {
4: System.out.print("1");
5: try {
6: System.out.print("2");
7: int x = Integer.parseInt(name);
8: System.out.print("3");
9: } catch (NullPointerException e) {
10: System.out.print("4");
11: }
12: System.out.print("5");
13: }
14: public static void main(String[] args) {
15: Cat leo = new Cat();
16: leo.name = "Leo";
17: leo.parseName();
18: System.out.print("6");
19: }
20: }
```


Select one or more:

☐ a. 124, followed by a stack trace for a NumberFormatException

☐ b. The code does not compile.

☐ c. 12, followed by a stack trace for a NumberFormatException

☐ d. An uncaught exception is thrown.

☐ e. 1256, followed by a stack trace for a NumberFormatException

☐ f. 12456

Question 8

Not yet answered

Marked out of 1.00

Which terminal operations on the Stream class are reductions? (Choose all that apply.)

Select one or more:

- ☑ **a. sum()**
- ☐ **b. peek()**
- ☐ **c. map()**
- ☑ **d. count()**
- ☑ **e. collect()**
- ☐ **f. findFirst()**

Question 9

Not yet answered

Marked out of 1.00

Which of the following can fill in the blank so that the code prints out false? (Choose all

that apply.)

Stream<String> s = Stream.generate(() -> "meow");

boolean match = s._____(String::isEmpty);

System.out.println(match);

Select one or more:

- ☐ **a. findAny**
- ☐ **b. None of the above**
- ☐ **c. noneMatch**
- ☐ **d. findFirst**
- ☐ **e. allMatch**
- ☐ **f. anyMatch**

Which of the following is true?

4: Stream<Integer> s = Stream.of(1);

5: IntStream is = s.mapToInt(x -> x);

6: DoubleStream ds = s.mapToDouble(x -> x);

7: Stream<Integer> s2 = ds.mapToInt(x -> x);

8: s2.forEach(System.out::print);

Select one or more:

☐ **a. Line 4 does not compile.**

☐ **b. Line 8 does not compile.**

☐ **c. Line 6 does not compile.**

☐ **d. Line 7 does not compile.**

☐ **e. Line 5 does not compile.**

☐ **f. The code throws an exception.**

☐ **g. The code compiles and prints 1.**

What is the postfix expression for the infix expression A * (B + C) / D?

Select one or more:

☑ **a. ABC+D/**

☐ **b. AB+CD/**

☐ **c. ABC+D/**

☐ **d. AB+C/D**

In a Binary Search Tree (BST), the minimum element is found by:

Select one or more:

☐ **a. Performing a pre-order traversal**

☐ **b. Performing an in-order traversal**

☐ **c. Traversing the right subtree**

☐ **d. Traversing the left subtree**

Question 13

Not yet answered

Marked out of 1.00

Which of the following is true about the root of a Binary Search Tree (BST)?

Select one or more:

- ☐ **a. It is always the smallest element in the tree.**
- ☐ **b. It has at most two children.**
- ☐ **c. It has no parent.**
- ☐ **d. It is always a leaf node.**

Question 14

Not yet answered

Marked out of 1.00

What is the purpose of balancing a Binary Search Tree (BST)?

Select one or more:

- ☐ **a. To minimize the tree's height and improve search, insertion, and deletion times**
- ☐ **b. To reduce memory usage**
- ☐ **c. To ensure all nodes have two children**
- ☐ **d. To simplify the structure of the tree**

Question 15

Not yet answered

Marked out of 1.00

```
Sort(arr[]):
    n = length of arr
    for i from 0 to n - 1:
        minIndex = i
    for j from i + 1 to n - 1:
        if arr[j] < arr[minIndex]:
            minIndex = j
     if minIndex != i:
        Swap(arr[i], arr[minIndex])
```

The above code talk about which sorting technique?

Select one or more:

- ☐ **a. Selection Sort**
- ☐ **b. Quick Sort**
- ☐ **c. Bubble Sort**
- ☐ **d. Merge Sort**

Question 16

Not yet answered

Marked out of 1.00

Mr A, Miss B, Mr C and Miss D are sitting around a table and discussing their trades. Mr A sits opposite to chef. Miss B sits right to the business man. The software engineer is on the left of the tailor. Miss D sits opposite Mr C. What are the trades of A and B?

Select one or more:

- ☐ **a. Tailor and chef**
- ☐ **b. Software engineer and chef**
- ☐ **c. Tailor and businessman**
- ☐ **d. Businessman and chef**

Question 17

Not yet answered

Marked out of 1.00

If in a certain code language, '324' means 'Light is bright', '629' means 'Girl is beautiful' and '4758' means 'I prefer bright clothes', which digit means 'Light' in that language?

Select one or more:

- ☐ **a. 3**
- ☐ **b. 4**
- ☐ **c. 7**
- ☐ **d. 2**

Question 18

Not yet answered

Marked out of 1.00

A shopkeeper marks the prices at 20% higher than the original price. Due to increase in demand, he further increases the price by 15%. How much percent profit will he get?

Select one or more:

- ☐ **a. 38%**
- ☐ **b. 40%**
- ☐ **c. 44%**
- ☐ **d. 35%**

Question 19

Not yet answered

Marked out of 1.00

Find the wrong number in the series: 2, 5, 10, 50, 500, 5000

Select one or more:

- ☐ a. 10
- ☐ b. 5000
- ☐ c. 50
- ☐ d. 5

Question 20

Not yet answered

Marked out of 1.00

Pointing to a photograph, a man said, "I have no brother or sister but that man's father is my father's son." Whose photograph was it?

Select one or more:

- ☐ a. His nephew's
- ☐ b. His own
- ☐ c. His father's
- ☐ d. His son's

Quiz Navigation

Time left **0:23:43**