Time left 0:01:44

Question 1

Not yet answered

Marked out of 1.00

What are the names of the methods to do searching and sorting respectively on arrays?

- a. Arrays.binarySearch() and Arrays.sort()
- b. Arrays.search() and Arrays.sort()
- c. Arrays.search() and Arrays.linearSort()
- d. Arrays.binarySearch() and Arrays.linearSort()

Clear my choice

Question 2

Not yet answered

Marked out of 1.00

What is the correct syntax of a lambda expression for a Predicate<String> that checks if a string is empty?

- a. Predicate<String> p = (s) -> { return s.isEmpty(); }
- b. Predicate<String> p = s -> s.isEmpty();
- c. All of these
- d. Predicate<String> p = (String s) -> s.isEmpty();

Clear my choice

Question 3

Not yet answered

Marked out of 1.00

What is the output of the following when run as java FirstName Wolfie?

```
public class FirstName {
public static void main(String... names) {
System.out.println(names[0]);
}
}
```

- a. Wolfie
- b. FirstName
- c. The code throws an ArrayIndexOutOfBoundsException.
- d. The code throws a NullPointerException.

Clear my choice

Question 4

Not yet answered

Marked out of 1.00

What is the output of the following code snippet?

```
3: int x1 = 50, x2 = 75;
4: boolean b = x1 >= x2;
5: if(b = true) System.out.println("Success");
6: else System.out.println("Failure");
```

- a. The code will not compile because of line 4.
- b. The code will not compile because of line 5.
- c. Failure
- d. Success

Clear my choice

Question 5

Not yet answered

Marked out of 1.00

How many of the following are legal declarations?

```
String lion [] = new String[] {"lion"};
String tiger [] = new String[1] {"tiger"};
String bear [] = new String[] {};
String ohMy [] = new String[0] {};
```

a. Three

b. One

c. Two

d. None

Clear my choice

Question 6

Not yet answered

Marked out of 1.00

Which line of code causes an ArrayIndexOutOfBoundsException?

```
String[][] matrix = new String[1][2];
matrix[0][0] = "Don't think you are, know you are.";
matrix[0][1] = "I'm trying to free your mind Neo";
matrix[1][0] = "Is all around you ";
// m1
// m2
// m3
matrix[1][1] = "Why oh why didn't I take the BLUE pill?";  // m4
```

a. m1

b. m2

c. m3

d. m4

Clear my choice

Question 7

Not yet answered

Marked out of 1.00

What does the following output?

```
String[] os = new String[] { "Mac", "Linux", "Windows" };
Arrays.sort(os);
System.out.println(Arrays.binarySearch(os, "RedHat"));
```

- a. -3
- b. -2
- c. -1
- d. The output is not defined

Clear my choice

Question 8

Not yet answered

Marked out of 1.00

Which of the following is NOT a valid lambda expression?

- a. (x, y) -> x + y
- b. () -> System.out.println("Hello");
- c. int x -> x * 2;
- d. (String s) -> { return s.length(); }

Clear my choice

Question 9

Not yet answered

Marked out of 1.00

Given

```
class Vehicle{
    int x;
    Vehicle(){
        this(10); //line n1
    }
    Vehicle(int x){
        this.x = x;
    }
}
class Car extends Vehicle{
    int y;
    Car(){
        this(20); //lin2 n2;
    }
    Car(int y){
        this.y = y;
    }
    public String toString(){
        return super.x + ":" +this.y;
    }
}
```

And given the code fragment:

```
Vehicle y = new Car();
System.out.println👈 ;
```

What is the result?

- a. 0:20
- b. 10:20
- c. Compilation fails at line n1
- d. Compilation fails at line n2

Clear my choice

Question 10

Not yet answered

Marked out of 1.00

What will be the output of the following code?

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

public class Main {
    public static void main(String[] args) {
        Predicate<String> startsWithA = str -> str.startsWith("A");
        Predicate<String> endsWithX = str -> str.endsWith("X");

        Predicate<String> combined = startsWithA.and(endsWithX);

        System.out.println(combined.test("AppleX"));
    }
}
```

a. Runtime exception

b. Compilation error

c. False

d. True

Clear my choice

Question 11

Not yet answered

Marked out of 1.00

What is the result of running the following program?

```
1: package fun;
2: public class Sudoku {
3:    static int[][] game;
4:
5:    public static void main(String[] args) {
6:          game[3][3] = 6;
7:          Object[] obj = game;
8:          game[3][3] = "X";
9:          System.out.println(game[3][3]);
10:   }
11: }
```

- a. The code does not compile.
- b. The code compiles but throws a different exception at runtime.
- c. X
- d. The code compiles but throws a NullPointerException at runtime.

Clear my choice

Question 12

Not yet answered

Marked out of 1.00

choose all that apply

```
class Test {
        int x=10;
    Test()  {       System.out.print(x+ " ");   }
        private  Test(int x)  {
                this.x=x;                                //Line-5
                System.out.print(x+ " ");
                }
       public static void main(String[] args)      {
              Test t=new Test(10);                  //line-9
              t.x=20;                                 //line-10
              System.out.println(this.x);             //line-11
       }
}
```

- [ ] a. compilation fails at Line-10
- [ ] b. compilation fails at Line-5
- [x] c. 20
- [ ] d. none of these
- [ ] e. 10
- [ ] f. compilation fails at Line-11

compilation fails at Line-11

Question 13

Not yet answered

Marked out of 1.00

Given the code fragments:

Person.java:

```
------------
public class Person{
    String name;
    int age;
    public Person(String n, int a){
        name = n;
        age = a;
    }
    public String getName(){
        return name;
    }
    public int getAge(){
        return age;
    }
}
```

Test.java:

```
----------
public static void checkAge(List <Person> list, Predicate<Person> predicate){
    for (Person p: list){
        if(predicate.test(p)){
            System.out.println(p.name + " ");
        }
    }
}
public static void main(String[] args){
    List<Person> iList = Arrays.asList(new Person("Hank", 45),new Person("Charlie", 40),new Person("Smith", 38));
}
//line n1
```

Which code fragment, when inserted at line n1, enables the code to print Hank?

- a. checkAge (iList, -> p. get Age > 40);
- b. checkAge(iList, Person p -> p.getAge > 40);
- c. checkAge (iList, p -> p.getAge > 40);
- d. checkAge(iList, (Person p) -> { p.getAge() > 40; });

Clear my choice

Question 14

Not yet answered

Marked out of 1.00

Which of the following is not a functional interface in the java.util.function package?

- a. BiPredicate
- b. ObjectDoubleConsumer
- c. ToLongFunction
- d. DoubleUnaryOperator

Clear my choice

Question 15

Not yet answered

Marked out of 1.00

What does this code output?

```
String[] nums = new String[] { "1", "9", "10" };
Arrays.sort(nums);
System.out.println(Arrays.toString(nums));
```

- a. None of these
- b. [1, 10, 9]
- c. [10, 1, 9]
- d. [1, 9, 10]

Clear my choice

Question 16

Not yet answered

Marked out of 1.00

What is the output of the following application?

```
package beach;
import java.util.function.*;
class Tourist {
public Tourist(double distance) {
this.distance = distance;
}
public double distance;
}
public class Lifeguard {
private void saveLife(Predicate<Tourist> canSave, Tourist tourist) {
System.out.print(canSave.test(tourist) ? "Saved" : "Too far");  // y1
}
public final static void main(String... sand) {
new Lifeguard().saveLife(s -> s.distance<4, new Tourist(2));  // y2
}
}
```

a. Too far

b. The code does not compile because of line y2

c. The code does not compile because of line y1.

d. Saved

Clear my choice

Question 17

Not yet answered

Marked out of 1.00

What will be the output of the following code?

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

public class Test {
    public static void main(String[] args) {
        Predicate<String> isEmpty = String::isEmpty;
        System.out.println(isEmpty.test(""));
    }
}
```

- a. True
- b. False
- c. Compilation error
- d. Runtime exception

Clear my choice

Question 18

Not yet answered

Marked out of 1.00

Which of these four array references can point to an array that is different from the others?

- a. int[][][] nums2a[], nums2b;
- b. int[] nums4a[][][], numbs4b[][][];
- c. int[][][][] nums1a, nums1b;
- d. int[][] nums3a[][], nums3b[][];

Clear my choice

Question 19

Not yet answered

Marked out of 1.00

What is the result of the following?

```
import java.time.*;
import java.util.*;
class Test {
      public static void main(String[] args)     {
List<String> hex = Arrays.asList("30", "8", "3A", "FF");
Collections.sort(hex);
int x = Collections.binarySearch(hex, "8");
int y = Collections.binarySearch(hex, "3A");
int z = Collections.binarySearch(hex, "4F");
System.out.println(x + " " + y + " " + z);
      }
}
```

- a. None of the above.
- b. 2 1 –3
- c. The code doesn't compile.
- d. 2 1 –2
- e. 0 1 –2
- f. 0 1 –3

Clear my choice

Question 20

Not yet answered

Marked out of 1.00

```
class Test {
   public static void main(String [] args) {
        int a=10;
       if(++a = 11)
        System.out.println(a);
       else
        ++a;
        System.out.println(a);
   }
}
```

- a. 12
- b. 10
- c. Run time exception
- d. 11
- e. Compilation fails

Clear my choice