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Full Name: thomas zangari

Email: gonzales1609@gmail.com

Test Name: AD - KBA - Core Java

Taken On: 3 Sep 2020 09:15:13 EDT

Time 52 min 43 sec/ 90 min

Taken:

Work 4 years

Experience:

City: Richmond

Course: [TEK Boston] 2020-Java Developer 01

Resume: https://hackerrank-

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Invited by: Customized

Invited on: 2 Sep 2020 15:53:42 EDT

Skills Score:

Tags Score:





scored in **AD - KBA - Core Java** in 52 min 43 sec on 3 Sep 2020 09:15:13 EDT

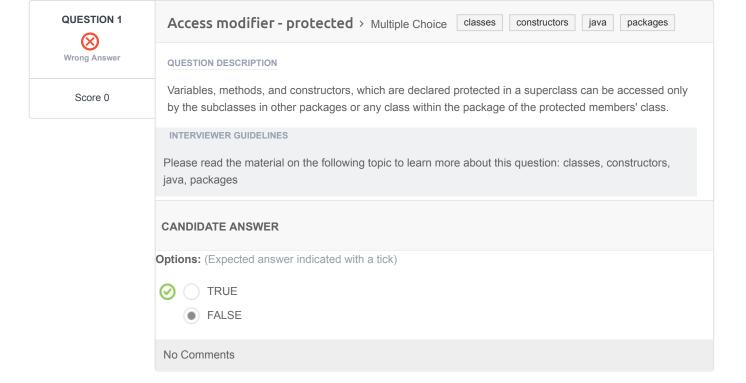
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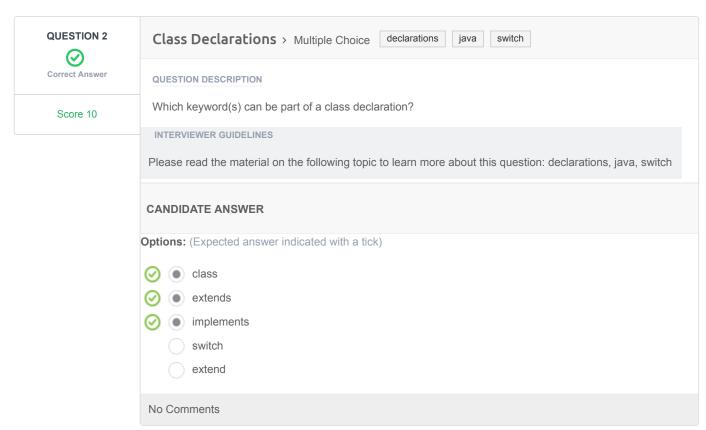


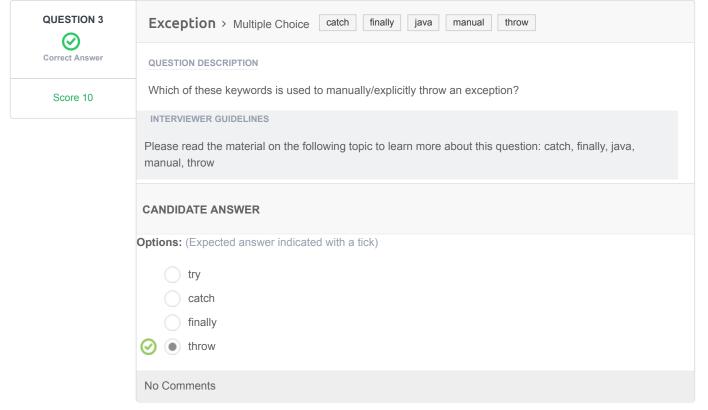
Recruiter/Team Comments:

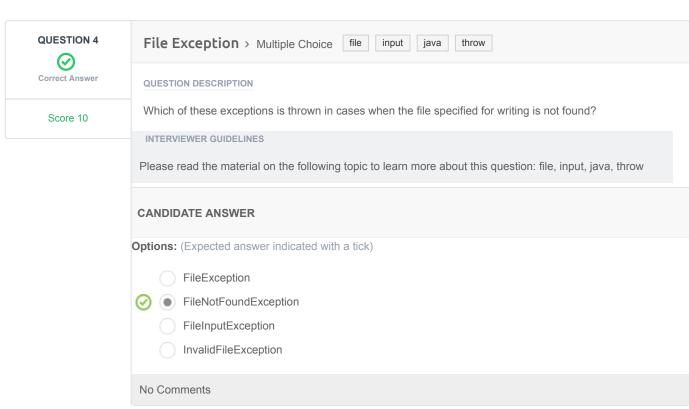
Question Description	Time Taken	Score	Status
Q1 Access modifier - protected > Multiple Choice	1 min 18 sec	0/ 10	8
Q2 Class Declarations > Multiple Choice	25 sec	10/ 10	Ø
Q3 Exception > Multiple Choice	30 sec	10/ 10	\odot
Q4 File Exception > Multiple Choice	11 sec	10/ 10	Ø
Q5 Interface > Multiple Choice	1 min 44 sec	0/ 10	\otimes
Q6 IS-A relationship > Multiple Choice	11 sec	10/ 10	Ø
Q7 Method declaration > Multiple Choice	34 sec	10/ 10	Ø
Q8 Method overloading > Multiple Choice	33 sec	10/ 10	Ø
Q9 Multiple Inheritance > Multiple Choice	14 sec	10/ 10	Ø
Q10 static keyword > Multiple Choice	2 min 27 sec	0/ 10	\otimes
Q11 How many copies of static (class) variables and instance variables are created when 10 objects are created of a class? > Multiple Choice	22 sec	10/ 10	Ø
Q12 What is an Abstraction in object-oriented programming? > Multiple Choice	1 min 4 sec	10/ 10	Ø
Q13 What is an Encapsulation in object-oriented programming? > Multiple Choice	1 min 34 sec	10/ 10	\odot
Q14 What is Autoboxing? > Multiple Choice	23 sec	10/ 10	Ø
Q15 What is Inheritance in Object-Oriented Programming? > Multiple Choice	23 sec	10/ 10	Ø
Q16 What is Polymorphism In object-oriented programing? > Multiple Choice	9 sec	10/ 10	Ø
Q17 What is the extension of Java source code files?> Multiple Choice	1 min 8 sec	10/ 10	Ø
Q18 What is the process of defining more than one method in a class differentiated by method signature? > Multiple Choice	1 min 18 sec	10/ 10	Ø
Q19 What is the return type of Constructors?> Multiple Choice	1 min 12 sec	10/ 10	Ø

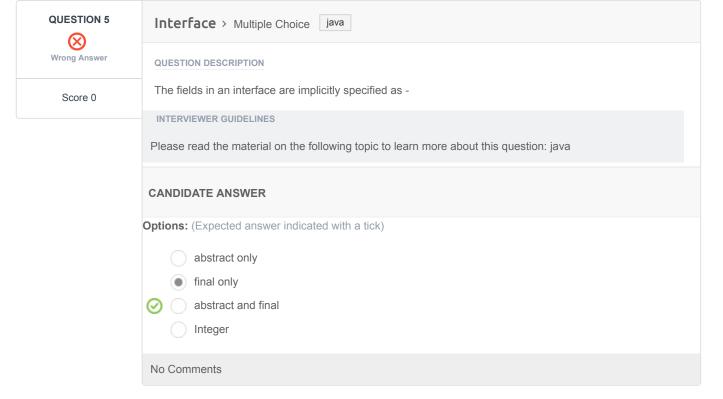
Q20	What is Truncation for numeric variables in Java? > Multiple Choice	2 min 13 sec	10/ 10	Ø
Q21 What should you do when a primitive int data type is required as a corresponding object? > Multiple Choice		9 sec	10/ 10	Ø
Q22	Which of the below is invalid identifier with main method? > Multiple Choice	51 sec	10/ 10	②
Q23 Which of the following is a valid declaration of an object of class Box? > Multiple Choice		19 sec	10/ 10	Ø
Q24 contr	Which of the following loops will execute the body of loop even when condition olling the loop is initially false? > Multiple Choice	28 sec	10/ 10	Ø
Q25 Which of the following modifier means a particular variable cannot be accessed from other class even within the same package? > Multiple Choice 3 min 29 sec 10/10			Ø	
Q26	Which of these is an invalid array declaration? > Multiple Choice	31 sec	10/ 10	Ø
Q27 Multi	Which of these operators is used to allocate memory to array variable in Java? > ple Choice	31 sec	10/ 10	Ø
Q28	Which of these statements is incorrect? > Multiple Choice	33 sec	10/ 10	Ø
Q29	Which one is a valid declaration of a boolean? > Multiple Choice	17 sec	10/ 10	Ø
Q30	Incorrect Polymorphism > Multiple Choice	56 sec	10/ 10	Ø
Q31	1 Method Overloading > Multiple Choice 40 sec 10/ 10		Ø	
Q32	Polymorphism > Multiple Choice 47 sec 10/ 10		Ø	
Q33	B Exception handling > Multiple Choice 24 sec 10/10		Ø	
Q34	ETL Code Trace > Multiple Choice	6 min 19 sec	0/ 10	\otimes
Q35	ETL Code Trace 2> Multiple Choice	5 min 17 sec	10/ 10	Ø
Q36	Java, Code Trace > Multiple Choice	6 min 4 sec	0/ 10	\otimes
Q37	Operators Code Trace > Multiple Choice	1 min 18 sec	10/ 10	Ø
Q38	Code Trace Array Output > Multiple Choice	2 min 28 sec	10/ 10	Ø
Q39	Jump statments Code Trace > Multiple Choice	3 min 6 sec	0/ 10	8

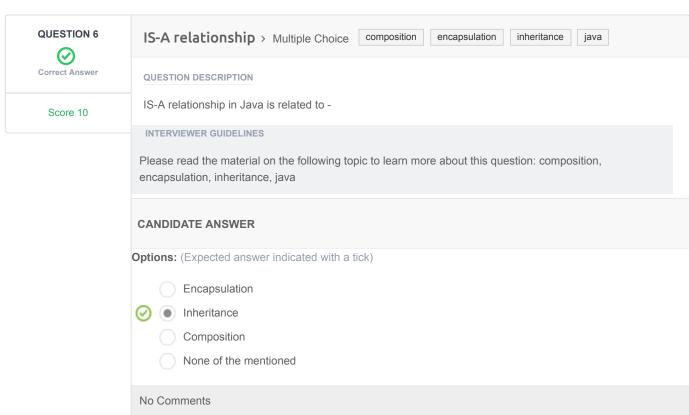


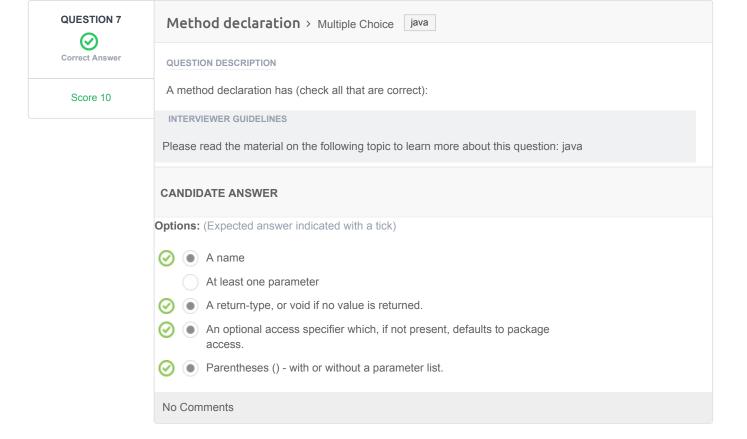


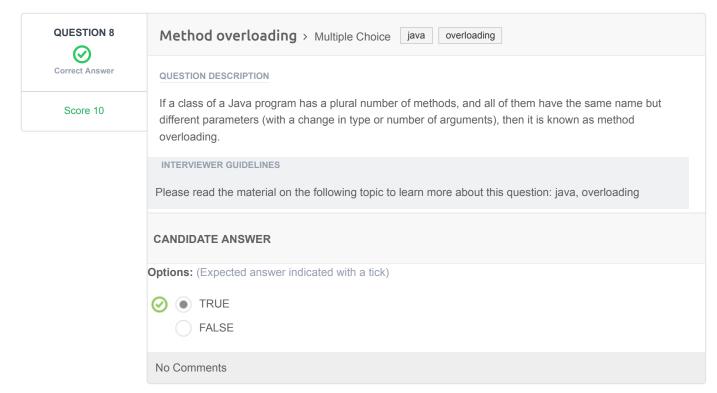


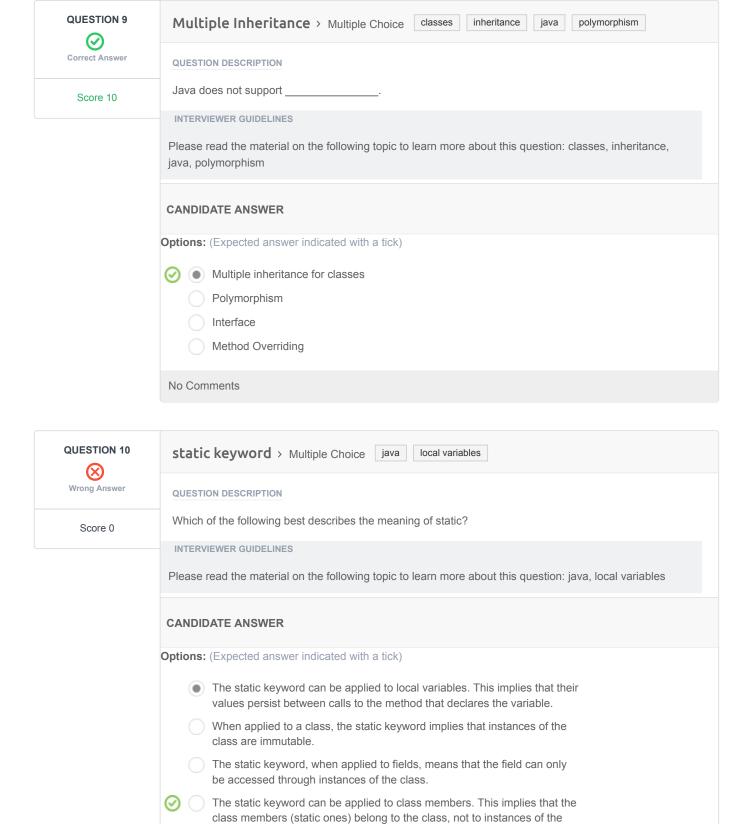




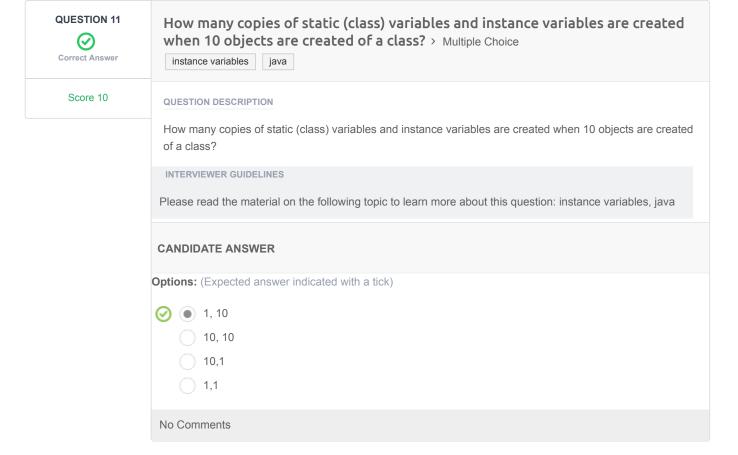


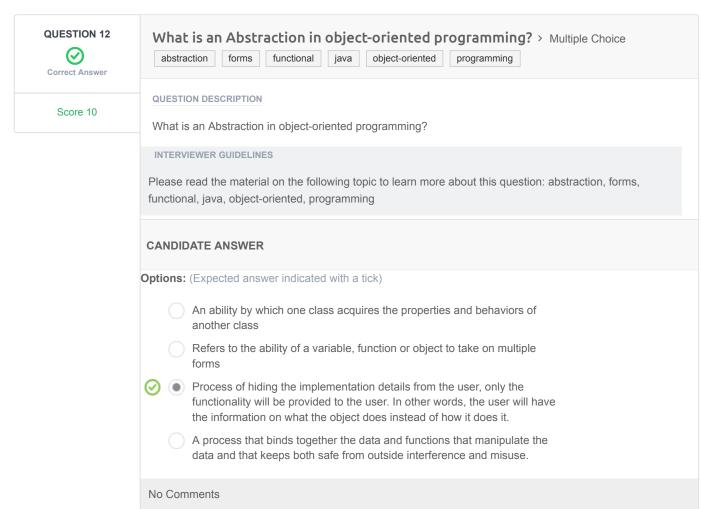


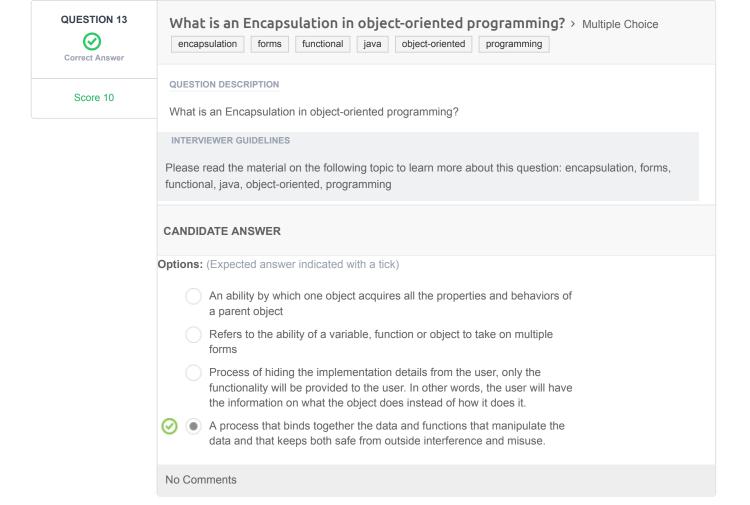


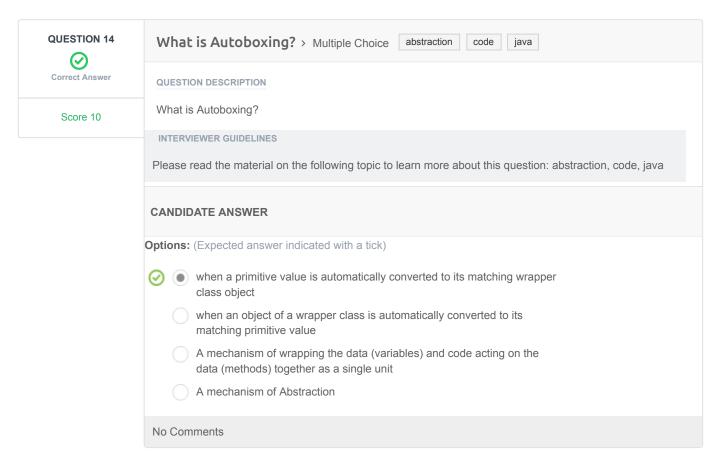


class.

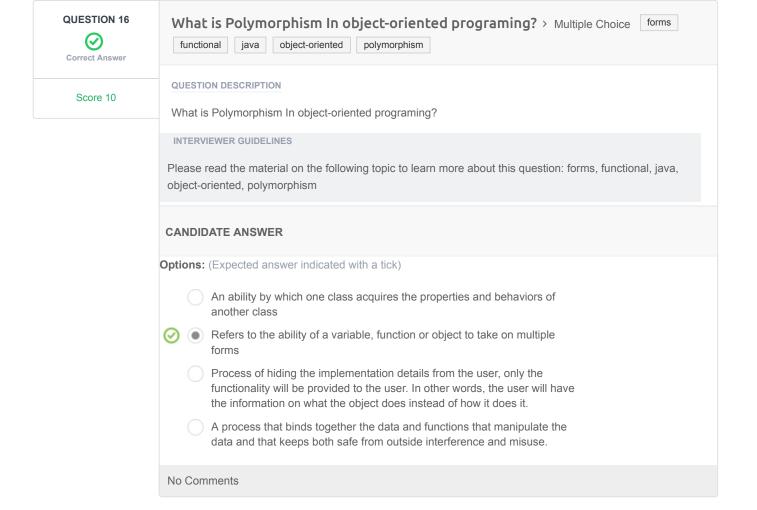


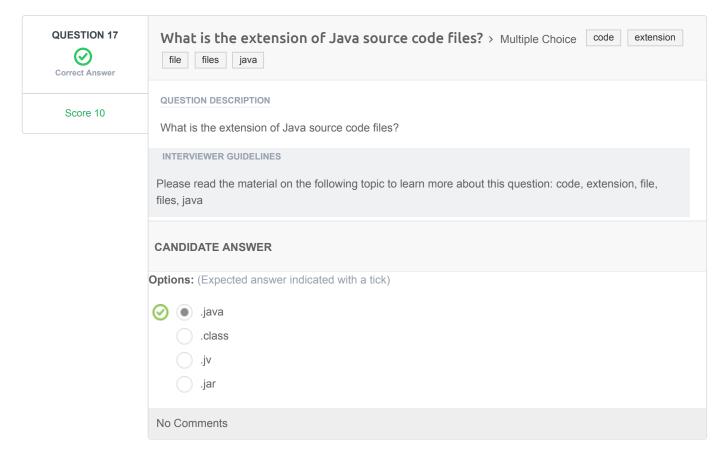


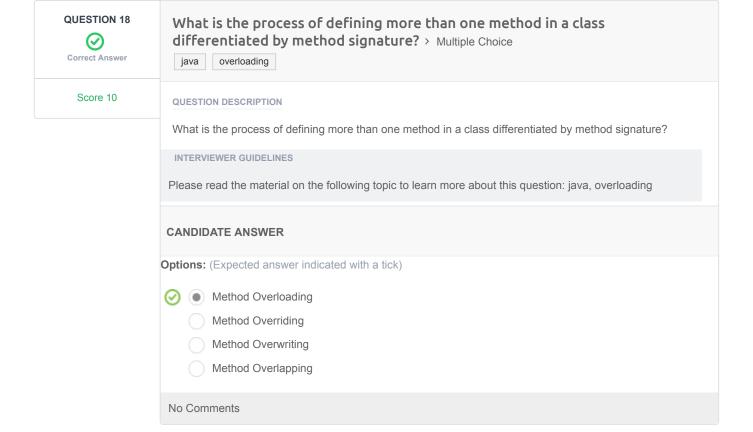


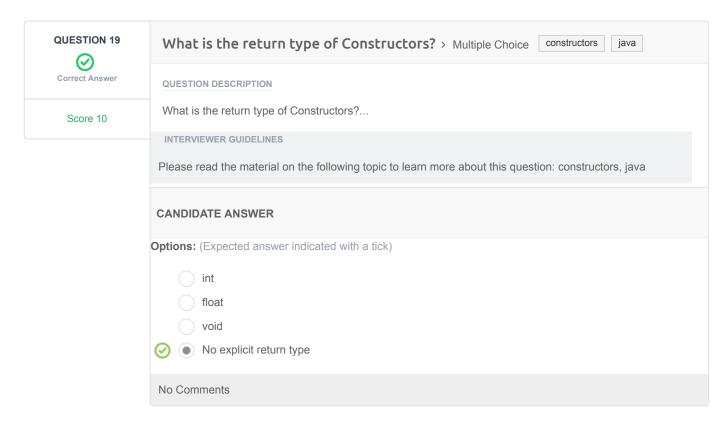


QUESTION 15 What is Inheritance in Object-Oriented Programming? > Multiple Choice forms inheritance java object-oriented programming Correct Answer QUESTION DESCRIPTION Score 10 What is Inheritance in Object-Oriented Programming? INTERVIEWER GUIDELINES Please read the material on the following topic to learn more about this question: forms, functional, inheritance, java, object-oriented, programming **CANDIDATE ANSWER** Options: (Expected answer indicated with a tick) An ability by which one class acquires the properties and behaviors of another class Refers to the ability of a variable, function or object to take on multiple Process of hiding the implementation details from the user, only the functionality will be provided to the user. In other words, the user will have the information on what the object does instead of how it does it. A process that binds together the data and functions that manipulate the data and that keeps both safe from outside interference and misuse.

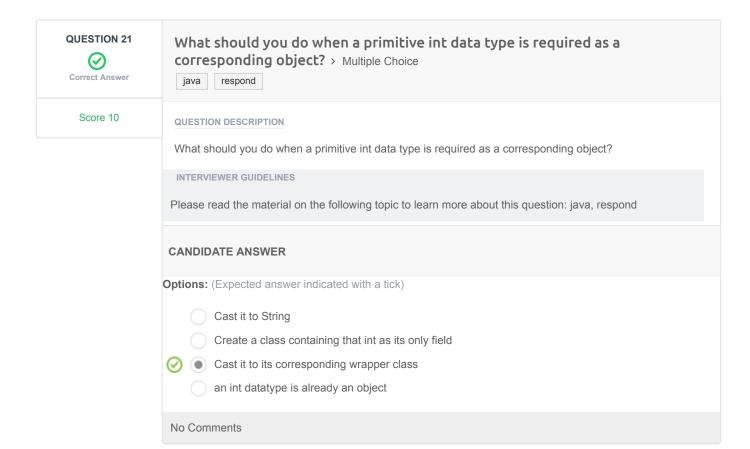








QUESTION 20 Correct Answer	What is Truncation for numeric variables in Java? > Multiple Choice java
	QUESTION DESCRIPTION
Score 10	What is Truncation for numeric variables in Java?
	INTERVIEWER GUIDELINES
	Please read the material on the following topic to learn more about this question: java
	CANDIDATE ANSWER
	Options: (Expected answer indicated with a tick)
	 Floating-point value assigned to an integer type Integer value assigned to floating type Floating-point value assigned to an Floating type None of the Mentioned
	No Comments



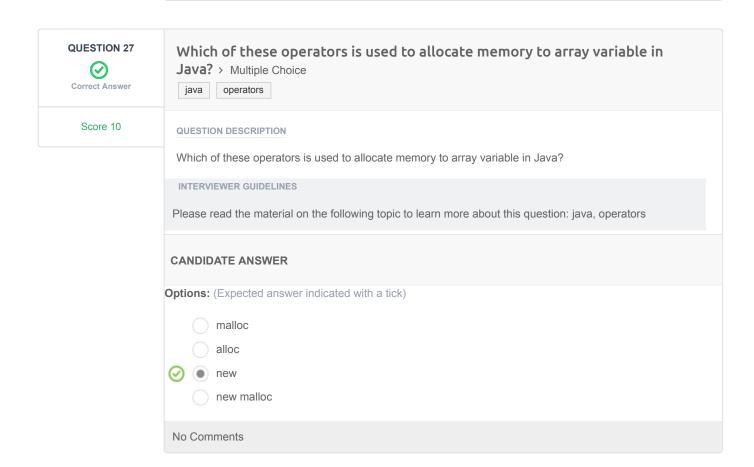
QUESTION 22 Correct Answer	Which of the below is invalid identifier with main method? > Multiple Choice java
	QUESTION DESCRIPTION
Score 10	Which of the below is invalid identifier with main method?
	INTERVIEWER GUIDELINES
	Please read the material on the following topic to learn more about this question: java
	CANDIDATE ANSWER
	Options: (Expected answer indicated with a tick)
	public static
	oprivate
	final
	No Comments

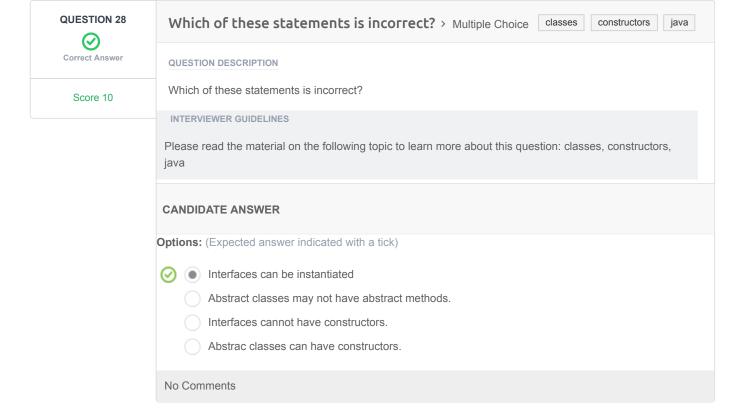
QUESTION 23 Correct Answer	Which of the following is a valid declaration of an object of class Box? > Multiple Choice java
Score 10	Which of the following is a valid declaration of an object of class Box? INTERVIEWER GUIDELINES Please read the material on the following topic to learn more about this question: java
	CANDIDATE ANSWER
	Options: (Expected answer indicated with a tick)
	No Comments

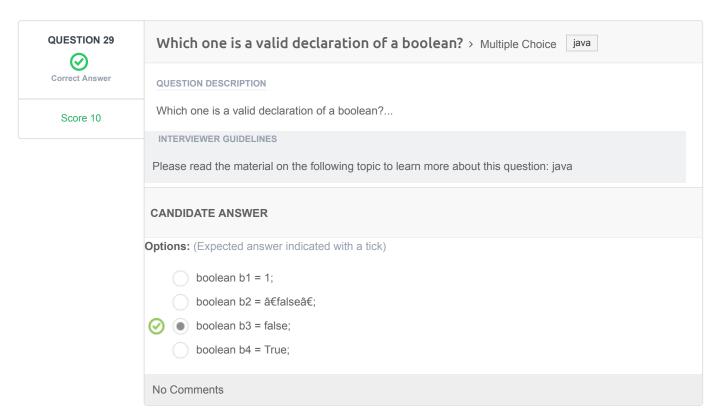
QUESTION 24 Correct Answer	Which of the following loops will execute the body of loop even when condition controlling the loop is initially false? > Multiple Choice java oops
Score 10	QUESTION DESCRIPTION
	Which of the following loops will execute the body of loop even when condition controlling the loop is initially false?
	INTERVIEWER GUIDELINES
	Please read the material on the following topic to learn more about this question: java, oops
	CANDIDATE ANSWER
	Options: (Expected answer indicated with a tick)
	o do-while
	while
	o for
	None of the above
	No Comments

QUESTION 25 Correct Answer	Which of the following modifier means a particular variable cannot be accessed from other class even within the same package? > Multiple Choice java
Score 10	QUESTION DESCRIPTION
	Which of the following modifier means a particular variable cannot be accessed from other class even within the same package?
	INTERVIEWER GUIDELINES
	Please read the material on the following topic to learn more about this question: java
	CANDIDATE ANSWER
	Options: (Expected answer indicated with a tick)
	private
	public
	protected
	default
	No Comments

QUESTION 26 Correct Answer	Which of these is an invalid array declaration? > Multiple Choice java	
	QUESTION DESCRIPTION	
Score 10	Which of these is an invalid array declaration?	
	INTERVIEWER GUIDELINES	
	Please read the material on the following topic to learn more about this question: java	
	CANDIDATE ANSWER	
	Options: (Expected answer indicated with a tick)	
	<pre>int[] arr = new int[5]; int[] arr; arr = new int[5]; int[] arr = new int[];</pre>	
	None of the mentioned	









Score 10

Given these code snippets:

QUESTION DESCRIPTION

```
public abstract class Mineral {
 // define abstract methods for origin, hardness and appearance.
public class Diamond extends Mineral {
 // implement origin, hardness and appearance methods.
```

```
Is the following assignment valid?
Diamond d = new Mineral();
```

INTERVIEWER GUIDELINES

Please read the material on the following topic to learn more about this question: code, java, polymorphism, snippets

CANDIDATE ANSWER

Options: (Expected answer indicated with a tick)



YES







Score 10

Method Overloading > Multiple Choice | java | overloading

QUESTION DESCRIPTION

A class declares three methods with the same name as shown. Is this a valid example of method overloading? Assume that Fuel is a class defined in the same package.

```
public class FireStarter {
 public void ignite(double oxygenAmount) {
   // ignite default fuel with the given 02
 public void ignite(Fuel fuel, int amount) {
  // ignite the given amount of the fuel with the default amount of
oxygen.
 }
 public void ignite(Fuel fuel, int amount, double oxygenAmount) {
   // ignite the given amount of the fuel with the given 02
```

INTERVIEWER GUIDELINES

Please read the material on the following topic to learn more about this question: java, overloading, rest

CANDIDATE ANSWER

Options: (Expected answer indicated with a tick)





✓ TRUE



FALSE



Score 10

Polymorphism > Multiple Choice | element | file | java | polymorphism

QUESTION DESCRIPTION

What is the output of the following program? Assume that each class is correctly declared in its own file and that the main method of Chemistry is the JVM entry point.

```
public class Element {
   public String appearance() {
        return "OVERRIDE THIS METHOD";
public class Iodine extends Element {
    @Override public String appearance() {
       return "lustrous, purple-black non-metallic solid";
public class Chemistry {
   public static void main(String[] args) {
       Element e = new Iodine();
       System.out.println(e.appearance());
}
```

INTERVIEWER GUIDELINES

Please read the material on the following topic to learn more about this question: element, file, java, polymorphism

CANDIDATE ANSWER

Options: (Expected answer indicated with a tick)

lustrous, purple-black non-metallic solid

- OVERRIDE THIS METHOD
- The program will not compile because lodine is not an Element.
- OVERRIDE THIS METHOD lustrous, purple-black non-metallic solid



Score 10

QUESTION DESCRIPTION

```
What will be the output of the following Java program?
```

```
class ExceptionHandling {
   public static void main(String args[]) {
        try {
            int a, b;
            b = 0;
            a = 5 / b;
            System.out.print("A");
        } catch (ArithmeticException e) {
            System.out.print("B");
   }
}
```

INTERVIEWER GUIDELINES

Please read the material on the following topic to learn more about this question: catch, java, runtime

CANDIDATE ANSWER

Options: (Expected answer indicated with a tick)







Compile time error

Runtime error



Score 0

ETL Code Trace > Multiple Choice java code trace

QUESTION DESCRIPTION

```
What is the output of the following Java program? package test;
class A {
    void ETL() {
      String E = "mySQL";
       String T = "Sqoop";
       String L = "hdfs";
        System.out.println(E + T + L);
    };
    void ETL(String ETL) {
        System.out.println(ETL.toUpperCase());
    void ETL(String E, String T, String L) {
        System.out.println(E + T + L);
public class Main {
    public static void main(String args[]) {
       String E = "extraction1";
        String T = "transformation2";
        String L = "loading3";
        A \text{ obj} = \text{new } A();
        obj.ETL(E + T + L);
    }
}
```

INTERVIEWER GUIDELINES

Please read the material on the following topic to learn more about this question: hdfs, java, mysql

CANDIDATE ANSWER

Options: (Expected answer indicated with a tick)

- - extraction1transformation2loading3
 - mySQLSqoophdfs
 - EXTRACTION1 TRANSFORMATION2 LOADING3



Score 10

ETL Code Trace 2 > Multiple Choice | java | code trace

QUESTION DESCRIPTION

```
What is the output of the following Java program? package test;
class A {
       String E = "extraction ";
       String T = "transformation ";
       String L = "loading ";
       final void ETL() {
              System.out.println(L + T + E);
class B extends A {
      void ETL() {
               System.out.println(E + T + L);
public class Main {
       public static void main(String args[]) {
               A obj = new B();
               obj.ETL();
```

INTERVIEWER GUIDELINES

Please read the material on the following topic to learn more about this question: java, runtime

CANDIDATE ANSWER

Options: (Expected answer indicated with a tick)

- extraction transformation loading
- loading transformation extraction
- Ompile time error
 - Runtime error
 - None of the mentioned



Score 0

Java, Code Trace > Multiple Choice | java | code trace

QUESTION DESCRIPTION

```
What is the output of the following Java program?
package test;
    class A {
        String sdlc[] = {
            "requirement analysis",
            "design",
            "development",
            "testing",
            "implementation",
            "maintenance"
        };
    }
    class B extends A {
        private String sdlc[] = {
            "r",
            "d",
            "d",
            "t",
            "i",
            "m"
        };
    class C extends B {
        String sdlc[] = {
            "s",
            "d",
            "1",
            "c"
        };
    public class Main {
        public static void main(String args[]) {
           B obj = new C();
            for (int i = 0; i < obj.sdlc.length; i++) {</pre>
                System.out.print(obj.sdlc[i] + " ");
        }
    }
```

INTERVIEWER GUIDELINES

Please read the material on the following topic to learn more about this question: "c", design, development, java, requirement analysis, runtime, sdlc, testing

CANDIDATE ANSWER

Options: (Expected answer indicated with a tick)

- requirement analysis design development testing implementation maintenance
- sdlc
- rddtim
- Compile time error
 - Runtime error



Score 10

Operators Code Trace > Multiple Choice java code trace

QUESTION DESCRIPTION

```
What is the output of the following Java program? package test;
public class Bool_operator {
        public static void main(String args[]) {
               boolean a = true;
                boolean b = !true;
                boolean c = a \mid b;
                boolean d = a & b;
                boolean e = d ? b : c;
                System.out.println(d + " " + e);
```

INTERVIEWER GUIDELINES

Please read the material on the following topic to learn more about this question: java

CANDIDATE ANSWER

Options: (Expected answer indicated with a tick)

false true

false false

true false

true true



Score 10

Code Trace Array Output > Multiple Choice java code trace

QUESTION DESCRIPTION

```
What is the output of the following Java program? package test;
public class Array_output
       public static void main(String args[]){
           int array_variable[][] = {{ 1, 2, 3}, { 4 , 5, 6}, { 7, 8,
9}};
           int sum = 0;
           for (int i = 0; i < 3; ++i) {
                for (int j = 0; j < 3; ++j) {
                   sum = sum + array_variable[i][j];
            }
           System.out.print(sum / 5);
    }
```

INTERVIEWER GUIDELINES

Please read the material on the following topic to learn more about this question: java

CANDIDATE ANSWER

Options: (Expected answer indicated with a tick)

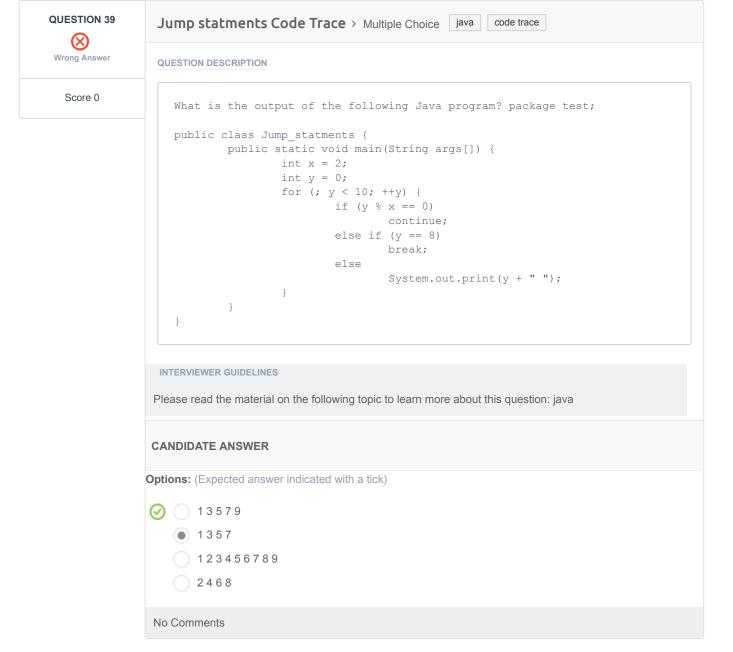






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