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Full Name: Xi Chen Email: xc4@andrew.cmu.edu Test Name: AD - KBA - Core Java Taken On: 3 Sep 2020 09:16:10 EDT Time Taken: 83 min 27 sec/ 90 min Work Experience: < 1 years **BUFFALO** [TEK Boston] 2020-Java Developer 01 Course: Invited by: Customized Invited on: 2 Sep 2020 15:53:35 EDT Skills Score: Tags Score: abstraction 20/20 20/20 catch classes 30/30 code 30/30 code trace 60/60 10/10 composition constructors 30/30 declarations 10/10 element 10/10 encapsulation 20/20 extension 10/10 file 30/30 files 10/10 finally 10/10 40/40 forms functional 40/40 inheritance 30/30 input 10/10 instance variables 0/10 java 360/390 local variables 0/10 manual 10/10 object-oriented 40/40 oops 10/10 operators 10/10 overloading 30/30 packages 10/10 polymorphism 40/40 programming 30/30 respond 10/10

92.3% 360/390

scored in **AD - KBA - Core Java** in 83 min 27 sec on 3 Sep 2020 09:16:10 EDT

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rest 10/10

runtime 10/10

snippets 10/10

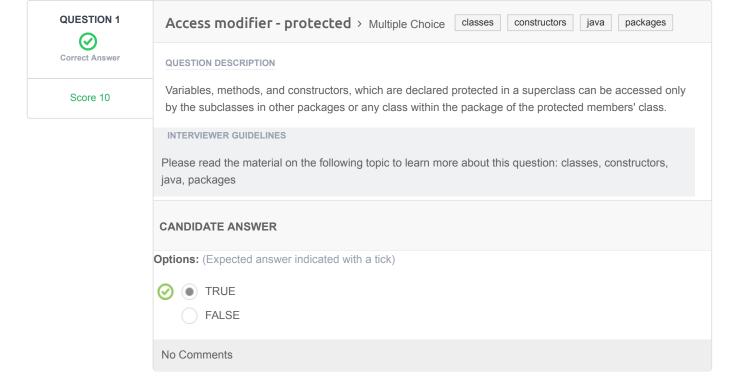
switch 10/10

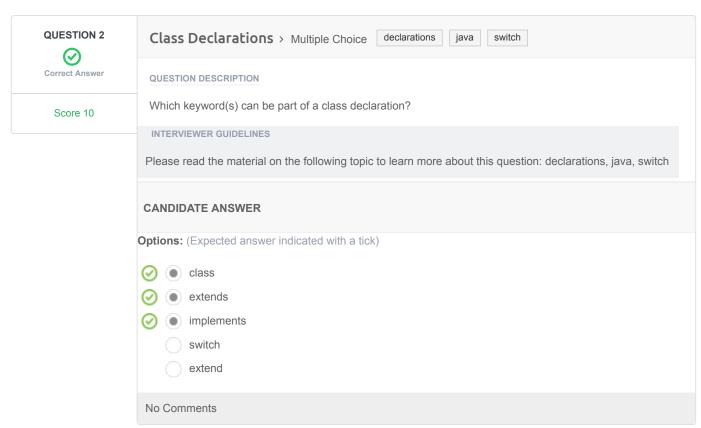
throw 20/20

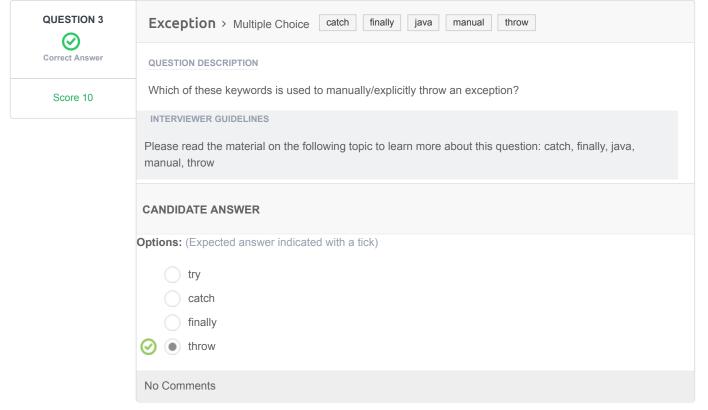
Recruiter/Team Comments:

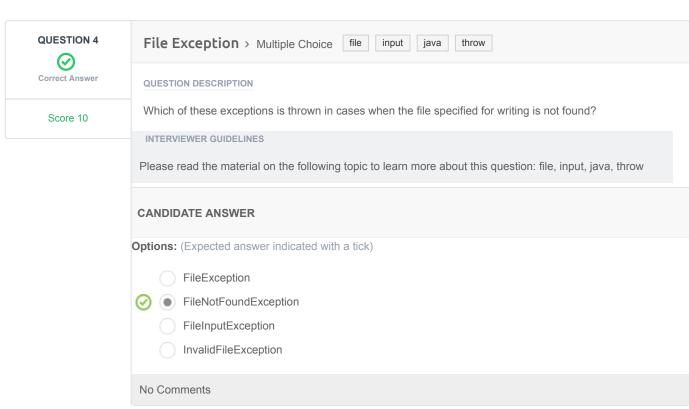
Question Description	Time Taken	Score	Status
Q1 Access modifier - protected > Multiple Choice	1 min 30 sec	10/ 10	②
Q2 Class Declarations > Multiple Choice	1 min 19 sec	10/ 10	\odot
Q3 Exception > Multiple Choice	2 min 7 sec	10/ 10	Ø
Q4 File Exception > Multiple Choice	8 sec	10/ 10	\odot
Q5 Interface > Multiple Choice	2 min 35 sec	10/ 10	②
Q6 IS-A relationship > Multiple Choice	19 sec	10/ 10	②
Q7 Method declaration > Multiple Choice	1 min 23 sec	0/ 10	8
Q8 Method overloading > Multiple Choice	41 sec	10/ 10	②
Q9 Multiple Inheritance > Multiple Choice	32 sec	10/ 10	②
Q10 static keyword > Multiple Choice	1 min 42 sec	0/ 10	\otimes
Q11 How many copies of static (class) variables and instance variables are create when 10 objects are created of a class? > Multiple Choice	3 min 11 sec	0/ 10	8
Q12 What is an Abstraction in object-oriented programming? > Multiple Choice	2 min 5 sec	10/ 10	②
Q13 What is an Encapsulation in object-oriented programming? > Multiple Choice	e 1 min 16 sec	10/ 10	②
Q14 What is Autoboxing?> Multiple Choice	1 min 9 sec	10/ 10	Ø
Q15 What is Inheritance in Object-Oriented Programming? > Multiple Choice	50 sec	10/ 10	Ø
Q16 What is Polymorphism In object-oriented programing? > Multiple Choice	2 min 1 sec	10/ 10	Ø
Q17 What is the extension of Java source code files? > Multiple Choice	40 sec	10/ 10	Ø
Q18 What is the process of defining more than one method in a class differentiate by method signature? > Multiple Choice	20 sec	10/ 10	Ø
Q19 What is the return type of Constructors?> Multiple Choice	1 min 36 sec	10/ 10	②
Q20 What is Truncation for numeric variables in Java?> Multiple Choice	1 min 45 sec	10/ 10	②
Q21 What should you do when a primitive int data type is required as a corresponding object? > Multiple Choice	2 min 5 sec	10/ 10	⊘

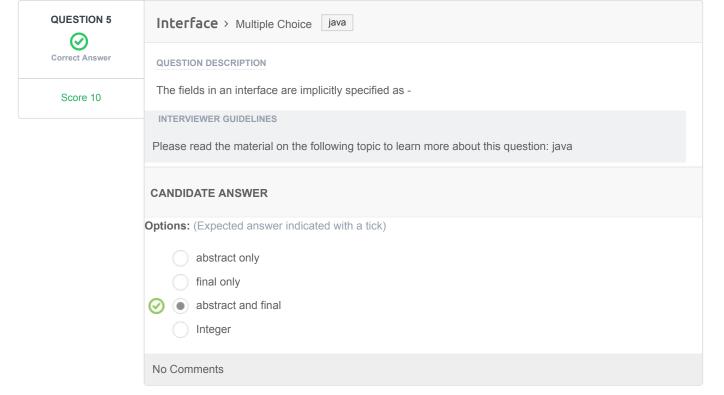
Q23 Which of the following is a valid declaration of an object of class Box? > Multiple Choice Q24 Which of the following loops will execute the body of loop even when condition	
Q24 Which of the following loops will execute the body of loop even when condition	
controlling the loop is initially false? > Multiple Choice	
Q25 Which of the following modifier means a particular variable cannot be accessed from other class even within the same package? > Multiple Choice 2 min 2 sec 10/10	
Q26 Which of these is an invalid array declaration? > Multiple Choice 6 min 49 sec 10/ 10	
Q27 Which of these operators is used to allocate memory to array variable in Java? > Multiple Choice 10/10	
Q28 Which of these statements is incorrect? > Multiple Choice 41 sec 10/10	
Q29 Which one is a valid declaration of a boolean? > Multiple Choice 1 min 27 sec 10/ 10	
Q30 Incorrect Polymorphism > Multiple Choice 3 min 41 sec 10/ 10	
Q31 Method Overloading > Multiple Choice 4 min 27 sec 10/ 10	
Q32 Polymorphism > Multiple Choice 3 min 17 sec 10/ 10	
Q33 Exception handling > Multiple Choice 2 min 58 sec 10/10	
Q34 ETL Code Trace > Multiple Choice 3 min 39 sec 10/ 10	
Q35 ETL Code Trace 2 > Multiple Choice 5 min 59 sec 10/10	
Q36 Java, Code Trace > Multiple Choice 7 min 13 sec 10/ 10	
Q37 Operators Code Trace > Multiple Choice 2 min 34 sec 10/ 10	
Q38 Code Trace Array Output > Multiple Choice 1 min 11 sec 10/ 10	
Q39 Jump statments Code Trace > Multiple Choice 2 min 13 sec 10/ 10	

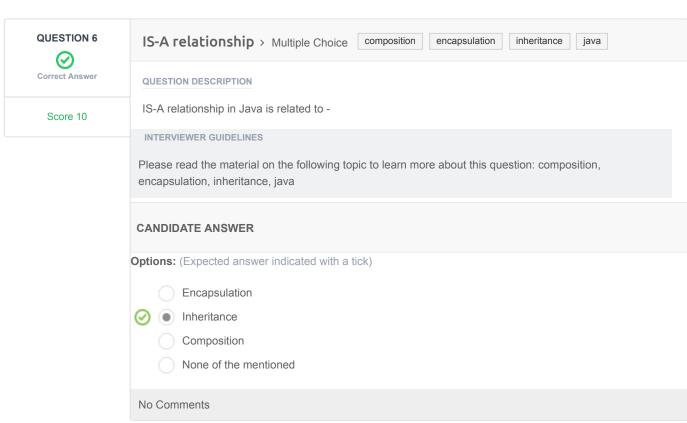


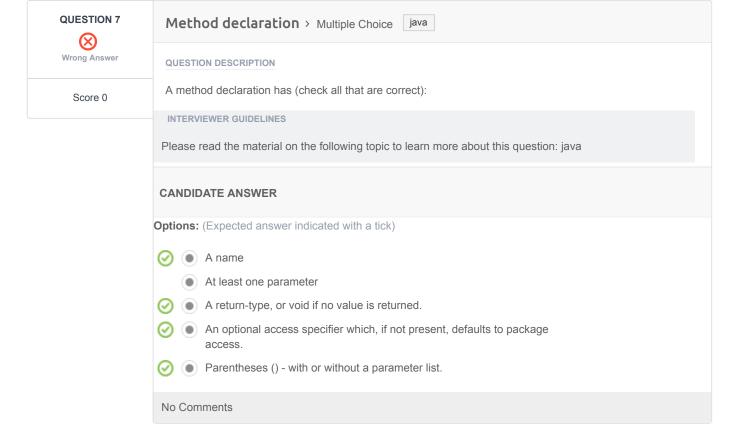


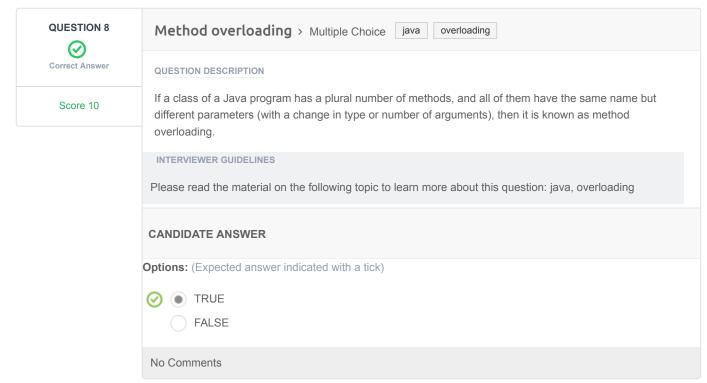


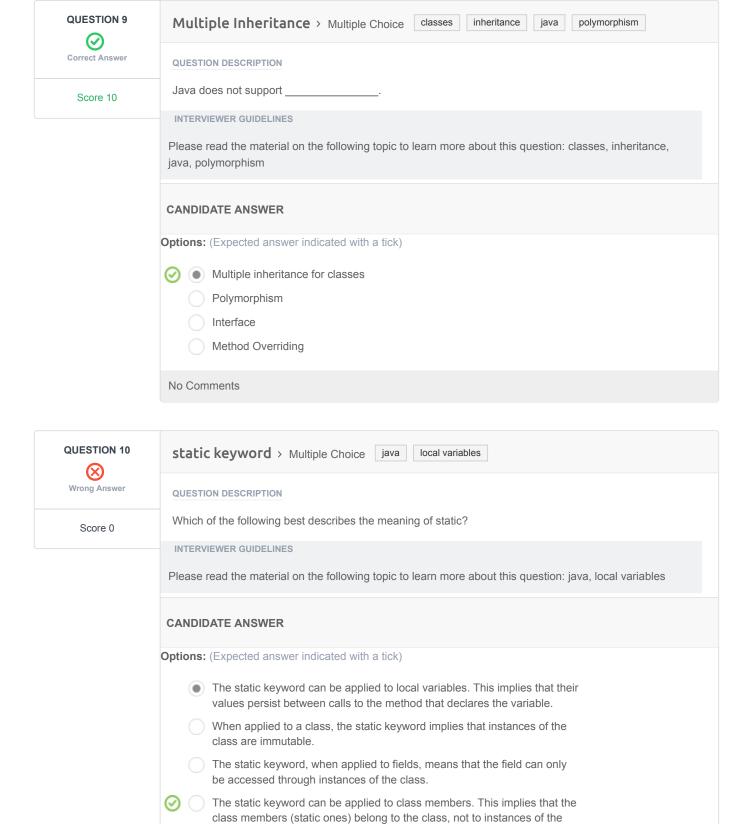




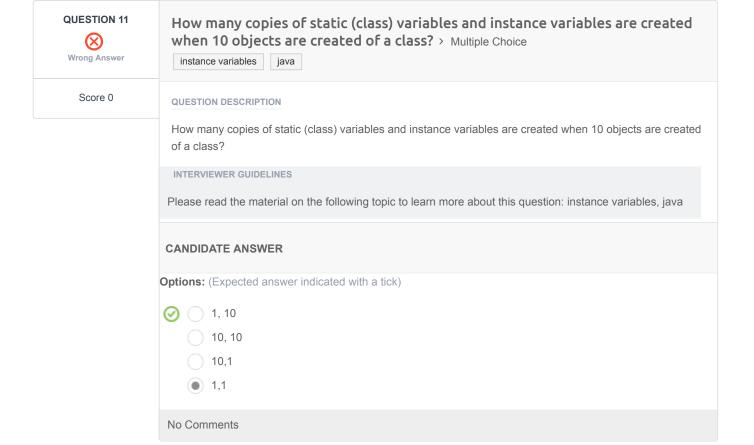


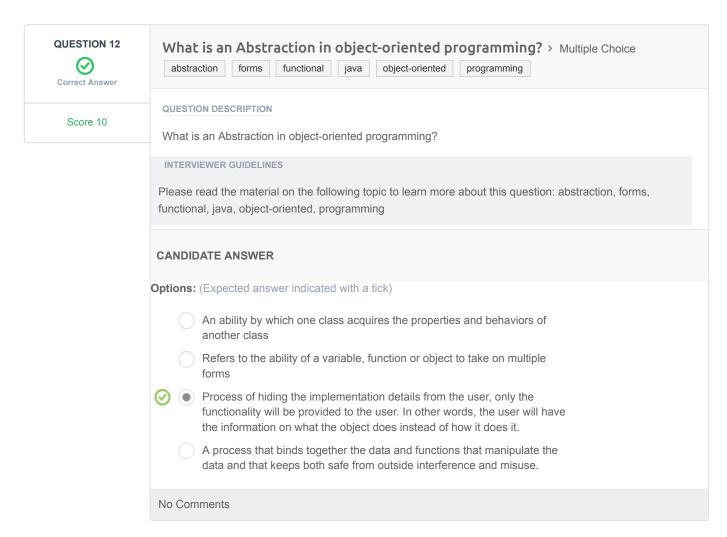


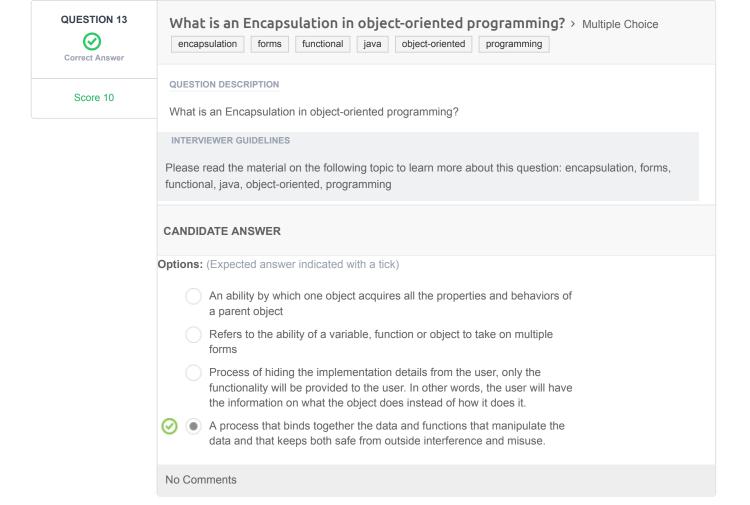


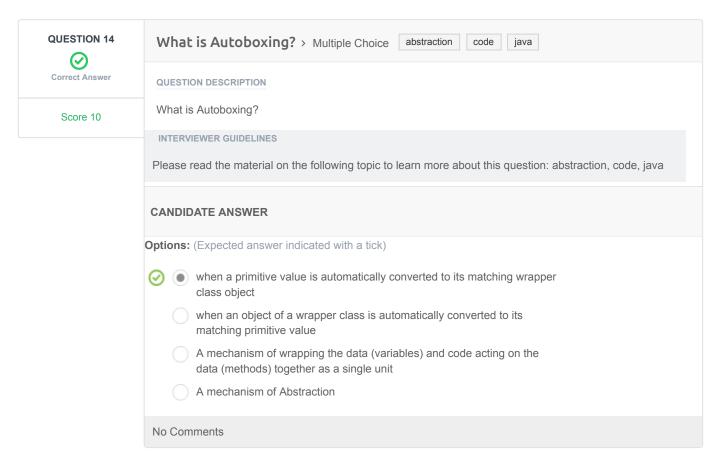


class.

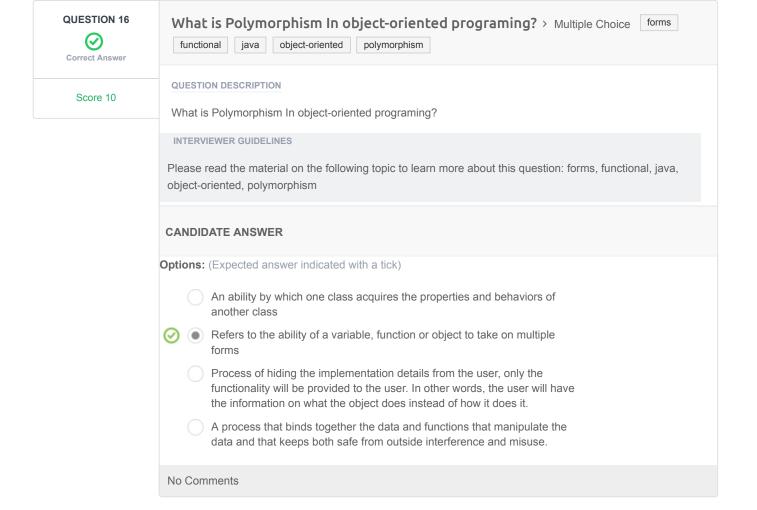


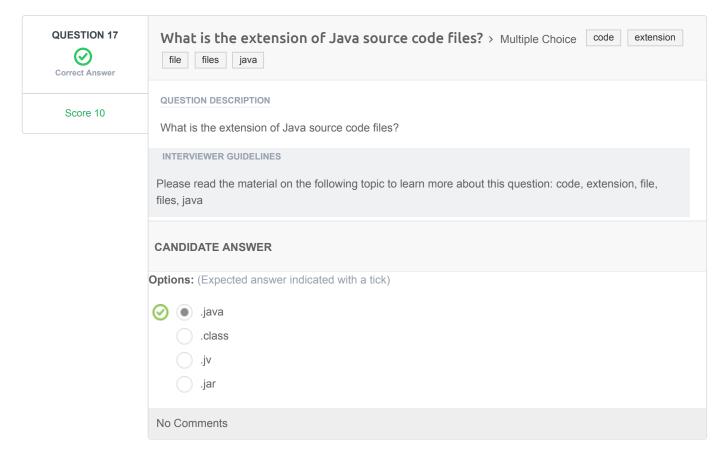


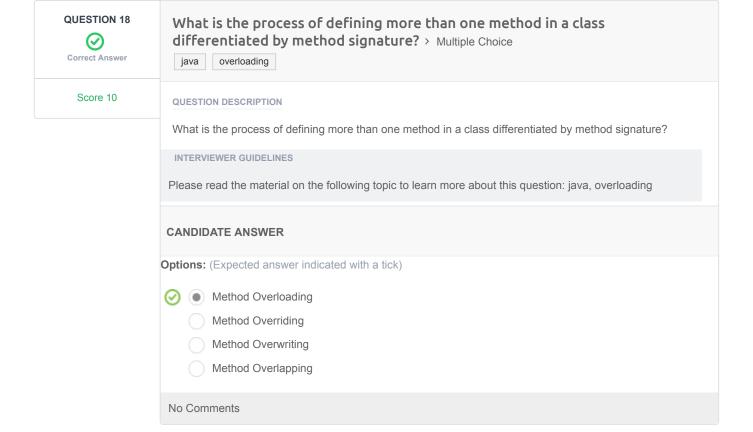


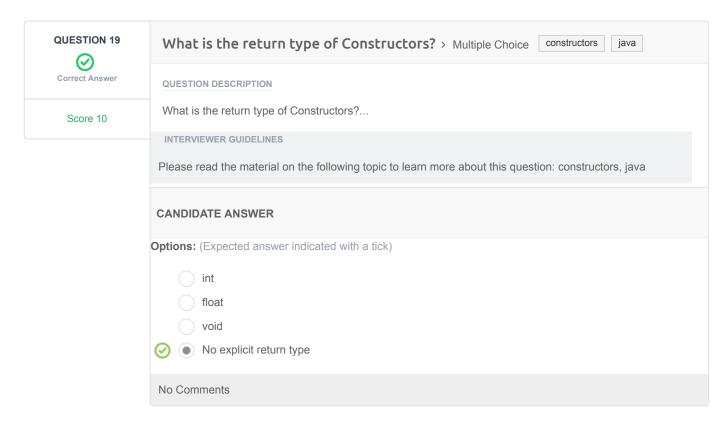


QUESTION 15 What is Inheritance in Object-Oriented Programming? > Multiple Choice forms inheritance java object-oriented programming Correct Answer QUESTION DESCRIPTION Score 10 What is Inheritance in Object-Oriented Programming? INTERVIEWER GUIDELINES Please read the material on the following topic 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.

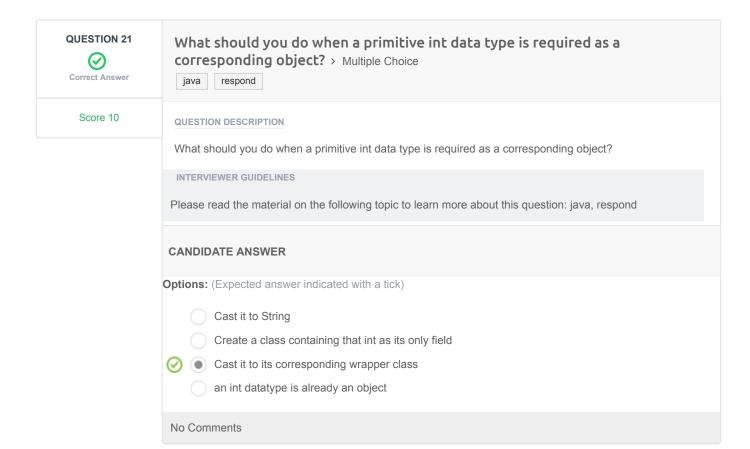








QUESTION 20	What is Truncation for numeric variables in Java? > Multiple Choice java
Correct Answer	QUESTION DESCRIPTION
Score 10	What is Truncation for numeric variables in Java?
	INTERVIEWER GUIDELINES
	Please read the material on the following topic to learn more about this question: java
	CANDIDATE 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



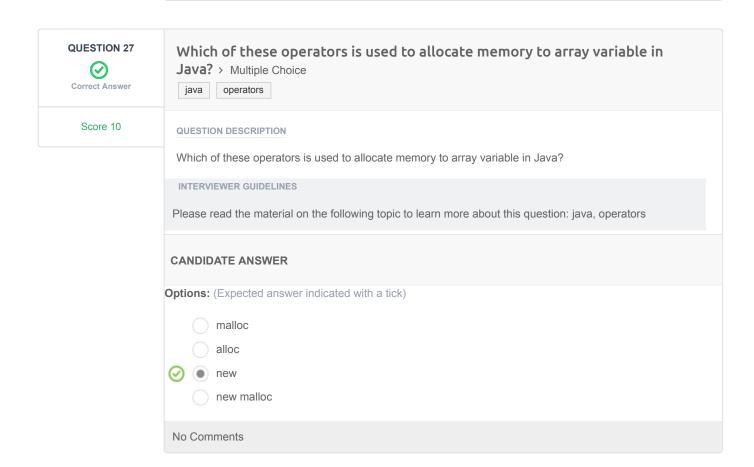
QUESTION 22	Which of the below is invalid identifier with main method? > Multiple Choice java	
Correct Answer	QUESTION DESCRIPTION	
Score 10	Which of the below is invalid identifier with main method?	
	INTERVIEWER GUIDELINES	
	Please read the material on the following topic to learn more about this question: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

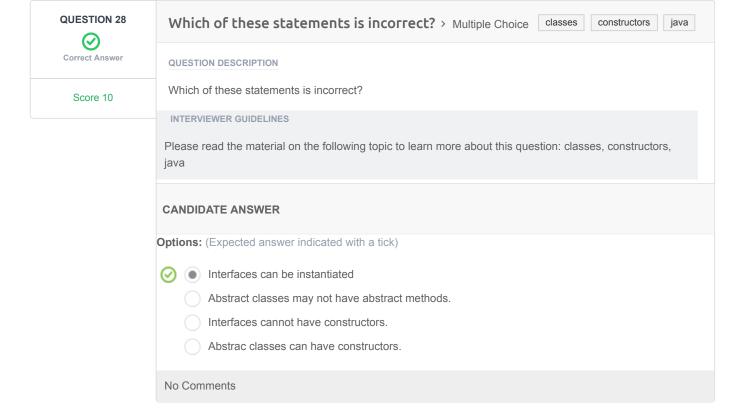
QUESTION 23 Correct Answer	Which of the following is a valid declaration of an object of class Box? > Multiple Choice java
Score 10	Which of the following is a valid declaration of an object of class Box? INTERVIEWER GUIDELINES Please read the material on the following topic to learn more about this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

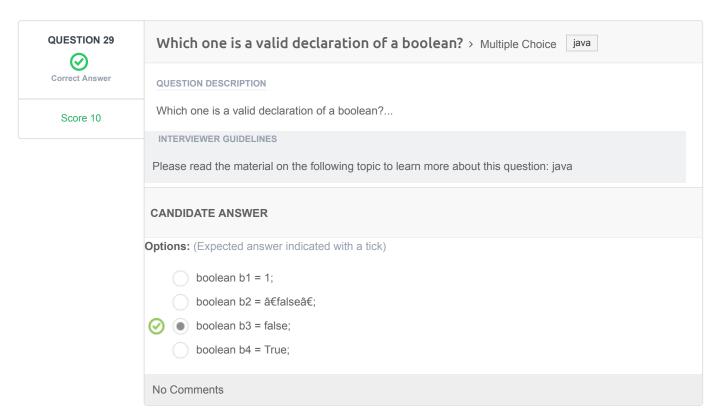
QUESTION 24 Correct Answer	Which of the following loops will execute the body of loop even when condition controlling the loop is initially false? > Multiple Choice java oops	
Score 10	QUESTION DESCRIPTION	
	Which of the following loops will execute the body of loop even when condition controlling the 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	Which of these is an invalid array declaration? > Multiple Choice java
Correct Answer	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 10

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 10

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)

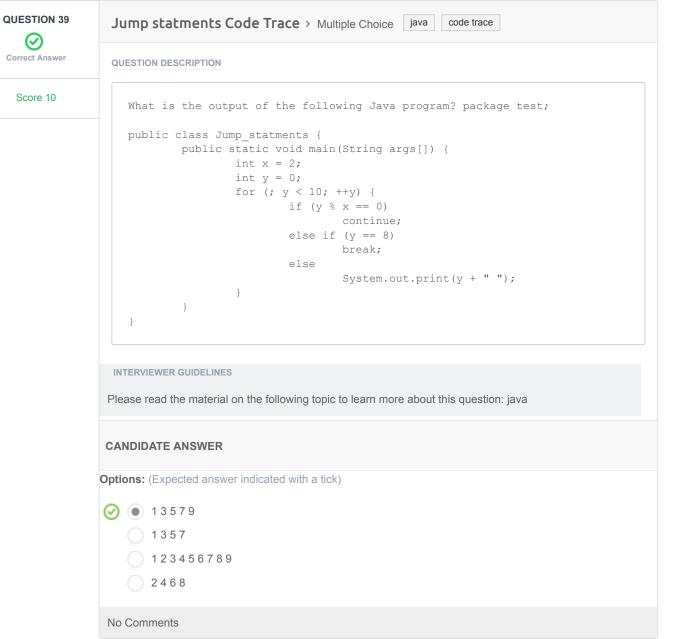






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