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Test Name:

AD - KBA - Advanced Java

Taken On:

17 Sep 2020 09:15:35 EDT

Time Taken:

37 min 15 sec/ 80 min

City:

Richmond

Course:

[TEK Boston] 2020-Java Developer 01

Resume:

https://hackerrank-resumes.s3.amazonaws.com/8107755/Fuwt2TI95luLxRLtHC21VQCQqamSVAIPZdQ8Xja1TleAghWPMUyGUFh_VkU7bH15Ag/Thomas_Zangari.pdf

Invited by:

Customized

Invited on:

16 Sep 2020 18:03:56 EDT

Skills Score:

Tags

Java

95/100

Score:

95%

95/100

scored in **AD - KBA - Advanced Java** in 37 min 15 sec on 17 Sep 2020 09:15:35 EDT

Recruiter/Team Comments:

No Comments.

	Question Description	Time Taken	Score	Status
Q1	Which of the following... > Multiple Choice	3 min 38 sec	5/ 5	✓
Q2	Which of the following... > Multiple Choice	25 sec	5/ 5	✓
Q3	Which of the following... > Multiple Choice	1 min 32 sec	5/ 5	✓
Q4	Which of the following... > Multiple Choice	36 sec	0/ 5	✗
Q5	Which statement... > Multiple Choice	22 sec	5/ 5	✓
Q6	Call Static Method of interface > Multiple Choice	8 min 35 sec	5/ 5	✓
Q7	What is a Functional... > Multiple Choice	11 sec	5/ 5	✓
Q8	default method Interface > Multiple Choice	3 min 24 sec	5/ 5	✓

Q9	What are some important... > Multiple Choice	47 sec	5/ 5	✓
Q10	Interface methods types > Multiple Choice	2 min 32 sec	5/ 5	✓
Q11	Streams > Multiple Choice	26 sec	5/ 5	✓
Q12	Streams vs Collections > Multiple Choice	2 min 10 sec	5/ 5	✓
Q13	reduce() > Multiple Choice	2 min 5 sec	5/ 5	✓
Q14	Stream > Multiple Choice	5 min 45 sec	5/ 5	✓
Q15	What is a stream... > Multiple Choice	1 min 34 sec	5/ 5	✓
Q16	getState() > Multiple Choice	1 min 1 sec	5/ 5	✓
Q17	Use Synchronization > Multiple Choice	12 sec	5/ 5	✓
Q18	Use Multithreading > Multiple Choice	32 sec	5/ 5	✓
Q19	Pause a thread for a time > Multiple Choice	17 sec	5/ 5	✓
Q20	Multithreading > Multiple Choice	48 sec	5/ 5	✓

QUESTION 1

✓

Correct Answer

Score 5

Which of the following... > Multiple Choice Java

QUESTION DESCRIPTION

Which of the following Java Collection Framework (JCF) classes implement Set<E>?


CANDIDATE ANSWER

Options: (Expected answer indicated with a tick)

☐ MapSet<E>
☒ TreeSet<E>
☐ EnumSet<E>
☒ HashSet<E>
☐ UpSet<E>

No Comments

QUESTION 2

Correct Answer

Score 5

Which of the following... > Multiple Choice


Java

QUESTION DESCRIPTION


Which of the following collection classes implements the List<E> interface?

CANDIDATE ANSWER

Options: (Expected answer indicated with a tick)

☒ ArrayList<E>


☐ Map<K,V>

☒ LinkedList<E>

☐ Set<E>

No Comments

QUESTION 3

Correct Answer

Score 5

Which of the following... > Multiple Choice

Java


QUESTION DESCRIPTION

Which of the following statement(s) are true about ArrayList<E>?


CANDIDATE ANSWER

Options: (Expected answer indicated with a tick)


☐ The indexing operator [] can be used to get/set elements of an ArrayList, just like it can be used on an array.

☒ The number of elements currently in an ArrayList is available using the size() method.

☐ The number of elements in an ArrayList cannot be changed after it is instantiated.

☒ An ArrayList<String> provides type-safety by only allowing adding objects of type String.

No Comments



<div>QUESTION 4</div> <div> Wrong Answer</div> <div>Score 0</div>	<div>Which of the following... > Multiple Choice <div>Java</div></div> <div>QUESTION DESCRIPTION</div> <div>Which of the following best describes a <i>map</i> in the Java Collections Framework?</div> <div>CANDIDATE ANSWER</div> <div>Options: (Expected answer indicated with a tick)</div> <div><div><input type="radio"/></div> A map is a collection of unique values where each value is associated with one or more keys.</div> <div><input type="radio"/></div> A map is a special collection used for geo-location.
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☒



☐ A map is a collection of unique keys where each key is associated with a value.


No Comments

<div>QUESTION 5</div> <div> Correct Answer</div> <div>Score 5</div>	<div>Which statement... > Multiple Choice <div>Java</div></div> <div>QUESTION DESCRIPTION</div> <div>Which statement best describes the Java Collections Framework's Set<E> ?</div> <div>CANDIDATE ANSWER</div> <div>Options: (Expected answer indicated with a tick)</div> <div><div><div></div> <input checked="" type="radio"/> A Set is a collection that contains no duplicate elements.</div><div><input type="radio"/></div> A Set is a collection of values which must not intersect with any other Set.</div> <div><input type="radio"/></div> A Set is a collection of no more than 6 tennis games, not counting tie-breakers.
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☐

No Comments

QUESTION 6



Correct Answer

Score 5

Call Static Method of interface > Multiple Choice


Java

QUESTION DESCRIPTION

In Java 8, can a Static Method **of** an Interface be called by using an instance of a class that implements that Interface, but that does do not override the Static Method?

CANDIDATE ANSWER

Options: (Expected answer indicated with a tick)

 ☒ No, a Static Method of an Interface must be called by using the interface name preceding the method name.


☐ Yes, in this aspect, calling a Static Method within an interface is identical to calling one in a class.

☐ Yes, but only if the Static Method is not abstract

☐ Yes, but only if the Static Method is final

No Comments

QUESTION 7



Correct Answer

Score 5

What is a Functional... > Multiple Choice


Java

QUESTION DESCRIPTION

What is a Functional Interface in Java?

CANDIDATE ANSWER

Options: (Expected answer indicated with a tick)

 ☒ An interface that contains only one abstract method

☐ An interface that contains one or more abstract method

☐ An interface that contains no abstract method

☐ An interface that contains more than one abstract method

No Comments

QUESTION 8

Correct Answer

Score 5

default method Interface > Multiple Choice Java**QUESTION DESCRIPTION**

What is the most likely output of this program?

```
interface Cat {  
  
    default String says() {  
  
        return "miaw";  
  
    }  
  
}  
  
interface Lion {  
  
    default String says() {  
  
        return "ROAR!";  
  
    }  
  
}  
  
class Tiger implements Cat, Lion{  
  
}  
  
public class Main{  
  
    public static void main(String args[]) {  
  
        System.out.println(new Tiger().says());  
  
    }  
  
}
```

CANDIDATE ANSWER**Options:** (Expected answer indicated with a tick)

Unresolved compilation problem: Duplicate default methods named says with the parameters () and () are inherited from the types Lion and Cat



miaw





ROAR



Unresolved compilation problem: The method says() is undefined for the type Tiger

No Comments

QUESTION 9  Correct Answer	What are some important... > Multiple Choice Java
Score 5	QUESTION DESCRIPTION What are some important characteristics of a lambda expression?
	CANDIDATE ANSWER Options: (Expected answer indicated with a tick) <div><input checked="" type="checkbox"/> <input type="radio"/> No need to use parentheses for functions with only one parameter</div> <div><input checked="" type="checkbox"/> <input type="radio"/> No need to declare the type of its parameters</div> <div><input checked="" type="checkbox"/> <input type="radio"/> No need to use curly braces in the expression body if the body contains a single statement</div> <div><input type="radio"/> No need to implement the abstract method of the functional interface</div> <div>No Comments</div>

QUESTION 10  Correct Answer	Interface methods types > Multiple Choice Java
Score 5	QUESTION DESCRIPTION In Java 8, what types of methods can be defined (having a body) in an interface? (select all that apply)
	CANDIDATE ANSWER Options: (Expected answer indicated with a tick) <div><input checked="" type="checkbox"/> <input type="radio"/> default methods</div> <div><input checked="" type="checkbox"/> <input type="radio"/> static methods</div> <div><input type="radio"/> abstract methods</div> <div><input type="radio"/> private methods</div> <div><input type="radio"/> final methods</div> <div>No Comments</div>

QUESTION 11

Correct Answer

Score 5

Streams > Multiple Choice Java**QUESTION DESCRIPTION**

Which of the following is/are true about Streams in Java?

CANDIDATE ANSWER

Options: (Expected answer indicated with a tick)

- ☒ ☐ A Stream is not a data type or data structure by itself, instead, it takes input from the Collections, Arrays or I/O channels.
- ☐ A Stream of the same data type or data structure of the Collections, Arrays or I/O channels that it takes input from.
- ☐ Changes made on Stream reflect on the original source when the stream operations are completed.
- ☐ None of the above

No Comments

QUESTION 12

Correct Answer

Score 5

Streams vs Collections > Multiple Choice Java**QUESTION DESCRIPTION**

What are some differences between Java Collections and Java Streams? (Select all that apply)

CANDIDATE ANSWER

Options: (Expected answer indicated with a tick)

- ☒ ☐ Collections contain their elements whereas Streams do not contain any elements.
- ☒ ☐ Collections are mainly used to store data whereas Streams are mainly used to operate on data.
- ☐ Streams contain their elements whereas Collections do not contain any elements.
- ☐ Streams are mainly used to store data whereas Collections are mainly used to operate on data.

No Comments

QUESTION 13

Correct Answer

Score 5

reduce() > Multiple Choice Java**QUESTION DESCRIPTION**

What is the most likely output of this program?

```
public class Main {  
  
    public static void main(String[] args) {  
  
        Double arr[] = { 1.0, 3.0, 5.0};  
  
        double total = Stream.of(arr)  
            .reduce(1.0, (Double a, Double b) -> a * b);  
  
        System.out.println("Total = " + total);  
    }  
}
```

CANDIDATE ANSWER**Options:** (Expected answer indicated with a tick)

- ☒ ☐ Total = 15.0
- ☐ Total = 0.0
- ☐ Total = 2025.0
- ☐ ArithmeticException

No Comments

QUESTION 14

Correct Answer

Score 5

Stream > Multiple Choice Java**QUESTION DESCRIPTION**

What is the most likely output of this program?

```
public class Main {  
  
    public static void main(String[] args) {  
        String arr[] = { "Buttercup", "Blossom", "Bubbles" };  
        Stream.of(arr).forEach( x -> x.toLowerCase());  
        Stream.of(arr).filter(x -> x.startsWith("B"))  
                .sorted().forEach(System.out::println);  
  
    }  
  
}
```

Note: Does a Stream change the source?

CANDIDATE ANSWER**Options:** (Expected answer indicated with a tick)

Blossom

Bubbles

Buttercup



blossom

bubbles

buttercup



Unresolved compilation problem:

The method forEach(System.out::println) is undefined for the type Object



Buttercup

Blossom

Bubbles



java.lang.IllegalStateException: stream has already been operated upon or closed

No Comments

QUESTION 15

Correct Answer

Score 5

What is a stream... > Multiple Choice Java**QUESTION DESCRIPTION**

What is a stream in Java?

CANDIDATE ANSWER**Options:** (Expected answer indicated with a tick)

A stream is a sequence of elements that supports various methods for sequential and parallel aggregate operations



A Stream is a framework that provides an architecture to store and manipulate the group of objects.



A Stream is a container object that holds a fixed number of values of a single type.



A Stream is a sequence of characters that exist as a single object.

No Comments

QUESTION 16

Correct Answer

Score 5

getState() > Multiple Choice Java**QUESTION DESCRIPTION**

What is the most likely output of this program?

```
public class Main extends Thread {  
  
    public static void main(String[] args) {  
  
        System.out.println(Thread.currentThread().getState());  
  
    }  
  
}
```

CANDIDATE ANSWER**Options:** (Expected answer indicated with a tick)

RUNNABLE



NEW





TERMINATED





Unresolved compilation problem: The method getState() is undefined for the type Thread

No Comments

QUESTION 17  Correct Answer	Use Synchronization > Multiple Choice Java
Score 5	QUESTION DESCRIPTION Which of the following keywords are used within a method to achieve synchronization?
	CANDIDATE ANSWER Options: (Expected answer indicated with a tick) <div><input checked="" type="radio"/> <input type="radio"/> synchronized <input type="radio"/> Runnable <input type="radio"/> stop <input type="radio"/> Threaded</div> No Comments

QUESTION 18  Correct Answer	Use Multithreading > Multiple Choice Java
Score 5	QUESTION DESCRIPTION In Java, what do we need to do to use multithreading in our programs?
	CANDIDATE ANSWER Options: (Expected answer indicated with a tick) <div><input checked="" type="radio"/> <input type="radio"/> By Extending the Thread class <input checked="" type="radio"/> <input type="radio"/> By implementing the Runnable Interface <input type="radio"/> By running your program multiple time <input type="radio"/> Nothing, multithreading is automatic in Java</div> No Comments

QUESTION 19  Correct Answer	Pause a thread for a time > Multiple Choice Java
Score 5	QUESTION DESCRIPTION Which of the following method can be used to pause the execution of a thread for a specified time in milliseconds?
	CANDIDATE ANSWER Options: (Expected answer indicated with a tick) <div><input checked="" type="radio"/> Thread.sleep() <input type="radio"/> Thread.wait() <input type="radio"/> Thread.stop() <input type="radio"/> Thread.time()</div> No Comments

QUESTION 20  Correct Answer	Multithreading > Multiple Choice Java
Score 5	QUESTION DESCRIPTION What is Multithreading?
	CANDIDATE ANSWER Options: (Expected answer indicated with a tick) <div><input checked="" type="radio"/> When two or more parts of the same program run simultaneously <input type="radio"/> When two different programs run simultaneously <input type="radio"/> When a single process can access information from many sources <input type="radio"/> When many different processes are able to access the same information</div> No Comments