DeepTech Prescreening Test 2023

Total points   72/100   ?

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✗ **What is an object? ***

○ Function

○ Instance

○ Datatype

◉ Syntax

Correct answer

◉ Instance

✓ **Which is not a true statement about an array?**

◉ An array expands automatically when it is full.

○ An array is allowed to contain duplicate values.

○ An array understands the concept of ordered elements.

○ An array uses a zero index to reference the first element.

✗ What does this code output?   *
String[] nums = new String[] { "1", "9", "10" };
Arrays.sort(nums);
System.out.println(Arrays.toString(nums));

◉ [1, 9, 10]

○ [1, 10, 9]

○ [10, 1, 9]

○ None of the above

Correct answer

◉ [1, 10, 9]

✓ What is the default value of elements in an array of int type? *

◉ 0

○ null

○ undefined

○ empty

✓ What is the size of an array in Java? *

◉ The number of elements it can hold

○ The amount of memory allocated for it

○ The length of the array

○ The size of the elements it holds

✓ Objects are the variables of the type ____ *

○ String

○ Boolean

◉ Class

○ All data types can be included

✓ What is an abstraction in object-oriented programming? *

○ Hiding the important data

◉ Hiding the implementation and showing only the features

○ Hiding the implementation

○ Showing the important data

✓ A phone is made up of many components like motherboard, camera, sensors and etc. If the processor represents all the functioning of phone, display shows the display only, and the phone is represented as a whole. Which among the following have highest level of abstraction?

○ Motherboard

○ Display

○ Camera

◉ Phone

✓   **Encapsulation helps ***

2

○ information hiding

○ in providing low coupling

○ in providing high cohesion

● All the above

✗   **How do you determine the number of elements in an array? ***
int buses[] = new int[5];

2

○ buses.length

● buses.length()

○ buses.size

○ buses.size()

Correct answer

● buses.length

✓   **Under which pillar of OOPS do base class and derived class relationships come?**

2

○ Class

○ Function

● Inheritance

○ Exception

✓　Which of the following is not true about polymorphism? *

○ Helps in redefining the same functionality

◉ Increases overhead of function definition always

○ It is feature of OOP

○ Ease in readability of program

✓　A non-member function cannot access which data of the class? *

◉ Private data

○ Public data

○ Protected data

○ All of the above

✓　____ member variables are initialized to zero when the first object of its class is created?

◉ Static

○ Local

○ Global

○ External

✓ **Which of the following syntax is incorrect for the class definition?** *

◉ student class{ };

○ class student{ student(int a){} };

○ class teacher{ public: teacher(int a){ } };

○ None of the mentioned

✓ **Which among the following best describes the Inheritance?** *

◉ Using the data and functions into derived segment

○ Using already defined functions in a programming language

○ Using the code already written once

○ Copying the code already written

✓ **When does method overloading is determined?** *

○ At run time

◉ At compile time

○ At coding time

○ At execution time

✓ Which of the two features match each other? *

○ Inheritance and Encapsulation

○ Encapsulation and Polymorphism

● Encapsulation and Abstraction

○ Abstraction and Polymorphism

✓ A constructor _____. *

○ May consist of a return type

● Doesn't consist of any return type

○ Has some return type

○ Of a derived class has a return type

✓ A derived class is also called a _____. *

○ Small class

● Subclass

○ Noticeable class

○ Big class

✓ What is the output of the following code? *
int[] arr = new int[5];
System.out.println(arr.length);

⦿ 5

○ 0

○ undefined

○ null

✗ How do you sort an array in Java? *

○ Using the sort() method of the Array class

○ Using the sort() method of the Arrays class

⦿ Using the sort() method of the List class

○ Using a for loop and an if statement

Correct answer

⦿ Using the sort() method of the Arrays class

✓ How do you copy one array to another in Java? *

○ a) Using the clone() method of the Array class

⦿ b) Using the copyOf() method of the Arrays class

○ c) Using a for loop and an assignment operator

○ d) Using the copyOfRange() method of the Arrays class

✓ What is the maximum size of an array in Java? *

        2

◉ a) Integer.MAX_VALUE

◯ b) Long.MAX_VALUE

◯ c) Short.MAX_VALUE

◯ d) There is no maximum size

✓ What does SQL stand for? *

        2

◉ a) Structured Query Language

◯ b) Simple Query Language

◯ c) Structured Query Library

◯ d) Standard Query Language

✓ What is the SQL command used to select all columns from a table called "employees"?

        2

◉ a) SELECT * FROM employees

◯ b) SELECT employees

◯ c) SELECT ALL FROM employees

◯ d) SELECT COLUMNS FROM employees

✕ Which of the following is not a SQL aggregate function? *

○ a) COUNT

◉ b) SUM

○ c) AVG

○ d) UPDATE

Correct answer

◉ d) UPDATE

✓ what does the following statement in SQL do? *
DROP TABLE student;

◉ a)Deletes a table called student

○ b)creates a table called student

○ c)check if there is a table called student

○ d)None of the above

✓ What is the output of the following code? *
int[] arr = {1,2,3,4,5};
for(int i = 0; i< arr.length; i++) {
System.out.print(arr[i] + " ");
}

2

◉ 1 2 3 4 5

◯ 5 4 3 2 1

◯ 0 0 0 0 0

◯ null null null null null

✓ Which of the following commands are a part of Data Control Language? *

2

◯ a)Revoke

◯ b)Grant

◉ c)Both A and B

◯ d)None of the above

✕ Which of the following command is used to delete all rows and free up space from a table?

○ a)Truncate

○ b)DROP

⊙ c)DELETE

○ d)ALTER

Correct answer

⊙ a)Truncate

✓ SQL Views are also known as *

○ a)Simple tables

⊙ b)Virtual tables

○ c)Complex tables

○ d)Actual Tables

✕ What does the snippet do? *
DELETE FROM STUDENTS
WHERE AGE=16;
ROLLBACK;

◯ a)Performs an undo operation on delete operation

◉ b)Deletes the rows from the table

◯ c)Deletes the entire table

◯ d)None of the above

Correct answer

◉ a)Performs an undo operation on delete operation

✓ How many Primary keys can have in a table? *

◉ a)Only 1

◯ b)Only 2

◯ c)Depends on no of Columns

◯ d)Depends on DBA

✕   Which of the following is not Constraint in SQL? *

○ a)Primary Key

○ b)Not Null

○ c)Check

○ d)Union

Correct answer

● d)Union

✕   Which operator is used to compare a value to a specified list of values? *

○ a)ANY

● b)BETWEEN

○ c)ALL

○ d)IN

Correct answer

● d)IN

✕   If we have not specified ASC or DESC after a SQL ORDER BY clause, the following is used by default

2

◉ a)DESC

○ b)ASC

○ c)There is no default value

○ d)None of the mentioned

Correct answer

◉ b)ASC

✕   How can you change "Thomas" into "Michel" in the "LastName" column in the Users table?

2

◉ a)UPDATE User SET LastName = 'Thomas' INTO LastName = 'Michel'

○ b)MODIFY Users SET LastName = 'Michel' WHERE LastName = 'Thomas'

○ c)MODIFY Users SET LastName = 'Thomas' INTO LastName = 'Michel'

○ d)UPDATE Users SET LastName = 'Michel' WHERE LastName = 'Thomas'

Correct answer

◉ d)UPDATE Users SET LastName = 'Michel' WHERE LastName = 'Thomas'

✓ Which of these packages contain all the collection classes? *

○ a) java.lang

◉ b) java.util

○ c) java.net

○ d) java.awt

✓ Which of these classes is not part of Java's collection framework? *

◉ a) Maps

○ b) Array

○ c) Stack

○ d) Queue

✕   Choose the correct option based on this program: *
import java.util.*;
class UtilitiesTest {
    public static void main(String[] args) {
        List < int > intList = new ArrayList < > ();
        intList.add(10);
        intList.add(20);
        System.out.println("The list is: " + intList);

◉ A. It prints the following: The list is: [10, 20]

○ B. It prints the following: The list is: [20, 10]

○ C. It results in a compiler error

○ D. It results in a runtime exception 1

Correct answer

◉ C. It results in a compiler error

✓   Which interface does HashSet implement? *

○ a) List

◉ b) Set

○ c) Map

○ d) Tree

✓   **What is the return type of the add() method in a List? ***

   ⦿ a) boolean

   ◯ b) int

   ◯ c) void

   ◯ d) long

✕   **What is the SQL command used to add a new column called "email" to a table called "employees"?**

   ◯ a) ADD COLUMN email TO employees

   ⦿ b) INSERT INTO employees (email)

   ◯ c) ALTER TABLE employees ADD email VARCHAR(255)

   ◯ d) UPDATE employees SET email

Correct answer

   ⦿ c) ALTER TABLE employees ADD email VARCHAR(255)

✓   **Which of the following is not a SQL data type? ***

   ◯ a) INT

   ◯ b) VARCHAR

   ◯ c) FLOAT

   ⦿ d) OBJECT

✓ Which interface does not allow duplicate elements? *

○ a) List

⦿ b) Set

○ c) Map

○ d) Tree

✓ Which interface is used to store key-value pairs? *

○ a) List

○ b) Set

⦿ c) Map

○ d) Tree

✓ What is the return type of the remove() method in a Collection? *

⦿ a) boolean

○ b) int

○ c) void

○ d) long

✗ Which interface does TreeSet implement? *

○ a) List

○ b) Set

◉ c) Map

○ d) SortedSet

Correct answer

◉ d) SortedSet

✓ What is the output of the following code? *
int[] arr1 = {1,2,3};
int[] arr2 = arr1;
arr2[1] = 4;
System.out.println(arr1[1]);

○ a) 2

◉ b) 4

○ c) undefined

○ d) null

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