Time left 0:14:57

Question 1

Not yet answered

Marked out of 1.00

How do you access the third element in an array in Java?

- a. myArray(2)
- b. myArray[3]
- c. myArray(3)
- d. myArray[2]

Question 2

Not yet answered

Marked out of 1.00

How do you break out of a loop in Java?

- a. break
- b. stop
- c. end
- d. exit

Question 3

Not yet answered

Marked out of 1.00

How do you find the length of an array in Java?

- a. myArray.length()
- b. myArray.length
- c. myArray.size()
- d. length(myArray)

Question 4

Not yet answered

Marked out of 1.00

In a directed graph, what is a cycle called where all vertices are distinct?

- a. Simple cycle
- b. Eulerian cycle
- c. Hamiltonian cycle
- d. Bipartite cycle

Question 5

Not yet answered

Marked out of 1.00

In Java, which of the following is the most efficient data structure for retrieving data in constant time (on average)?

- a. LinkedList
- b. TreeMap
- c. PriorityQueue
- d. HashMap

Question 6

Not yet answered

Marked out of 1.00

What is the default value of an instance variable in Java?

- a. Depends on the data type
- b. false
- c. 0
- d. null

Question 7

Not yet answered

Marked out of 1.00

What is the main advantage of using a Doubly Linked List over a Singly Linked List?

- a. It is easier to implement
- b. Doubly Linked List requires less memory
- c. Faster deletion
- d. Traversal in both directions is possible

Question 8

Not yet answered

Marked out of 1.00

What is the output of the following code?

```
for (int i = 0; i < 5; i++) {
    if (i == 2) {
        continue;
    }
    System.out.print(i + " ");
}
```

- a. 0 1 2 3 4
- b. 0 1 2 4
- c. 0 1 3
- d. 0 1 3 4

Question 9

Not yet answered

Marked out of 1.00

What is the primary difference between a LinkedList and an ArrayList in Java?

- a. LinkedList uses nodes and pointers, while ArrayList uses an array
- b. LinkedList uses a singly linked list, while ArrayList uses a static array
- c. LinkedList uses a dynamic array, while ArrayList uses a doubly linked list
- d. ArrayList stores objects, while LinkedList only stores primitive data types

Question 10

Not yet answered

Marked out of 1.00

What is the purpose of the `continue` statement in Java?

- a. None of the above
- b. Ends the loop
- c. Restarts the loop from the beginning
- d. Skips the rest of the code in the loop and starts the next iteration

Question 11

Not yet answered

Marked out of 1.00

What is the purpose of the `new` keyword in Java?

- a. To initialize an array
- b. All of the above
- c. To create a new instance of a class
- d. To allocate memory for an object

Question 12

Not yet answered

Marked out of 1.00

What is the result of 5 / 2 in Java?

- a. 2.0
- b. Error
- c. 2
- d. 2.5

Question 13

Not yet answered

Marked out of 1.00

What is the result of the following code?

```
int[] myArray = {1, 2, 3};
myArray[1] = 4;
System.out.println(myArray[1]);
```

- a. 3
- b. 4
- c. 2
- d. 1

Question 14

Not yet answered

Marked out of 1.00

What is the result of the following code?

```
String str = "Hello";
str.concat(", World!");
System.out.println(str);
```

- a. Hello
- b. Hello, World!
- c. Runtime Error
- d. , World!

Question 15

Not yet answered

Marked out of 1.00

What is the result of the following code?

```
int x = 5;
System.out.println(x++ + ++x);
```

- a. 10
- b. 12
- c. 13
- d. 11

Question 16

Not yet answered

Marked out of 1.00

What is the result of the following code?

```
int[] arr1 = {1, 2, 3};
int[] arr2 = arr1;
arr2[0] = 4;
System.out.println(arr1[0]);
```

- a. 1
- b. 2
- c. 4
- d. 3

Question 17

Not yet answered

Marked out of 1.00

Which is the correct way to declare a constant in Java?

- a. static final int x = 10;
- b. constant final int x = 10;
- c. final int x = 10;
- d. constant int x = 10;

Question 18

Not yet answered

Marked out of 1.00

Which of the following data structures is used to implement recursion in Java?

- a. Array
- b. Stack
- c. Linked List
- d. Queue

Question 19

Not yet answered

Marked out of 1.00

Which of the following operations is not possible on a stack?

- a. Pop
- b. Enqueue
- c. Peek
- d. Push

Question 20

Not yet answered

Marked out of 1.00

Which of the following tree traversal methods gives nodes in non-decreasing order in a Binary Search Tree (BST)?

a. Post-order
b. Pre-order
c. Level-order
d. In-order