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

Question 2

Not yet answered

Marked out of 1.00

How do you break out of a loop in Java?

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

Question 3

Not yet answered

Marked out of 1.00

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

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

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. Hamiltonian cycle
- b. Simple cycle
- c. Bipartite cycle
- d. Eulerian 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. PriorityQueue
b. HashMap
c. TreeMap
d. LinkedList

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. null
d. 0

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

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 3 4
b. 0 1 2 3 4
c. 0 1 3
d. 0 1 2 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 a singly linked list, while ArrayList uses a static array
b. LinkedList uses a dynamic array, while ArrayList uses a doubly linked list
c. LinkedList uses nodes and pointers, while ArrayList uses an array
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. Skips the rest of the code in the loop and starts the next iteration
b. None of the above
c. Restarts the loop from the beginning
d. Ends the loop

Question 11

Not yet answered

Marked out of 1.00

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

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

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. 2.5
d. 2

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. 4
b. 3
c. 1
d. 2

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. , World!
c. Runtime Error
d. Hello, 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. 13
b. 10
c. 12
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. 4
- b. 2
- c. 1
- d. 3

Question 17

Not yet answered

Marked out of 1.00

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

- a. constant int x = 10;
- b. constant final int x = 10;
- c. static final int x = 10;
- d. final 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. Linked List
- c. Queue
- d. Stack

Question 19

Not yet answered

Marked out of 1.00

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

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

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