



Data Structure Questions and Answers – Array and Array Operations

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This set of Data Structure Multiple Choice Questions & Answers (MCQs) focuses on "Array and Array Operations".

- 1. Which of these best describes an array?
- a) A data structure that shows a hierarchical behaviour
- b) Container of objects of similar types
- c) Arrays are immutable once initialised
- d) Array is not a data structure

View Answer

Answer: b

Explanation: Array contains elements only of the same type.

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- 2. How do you initialize an array in C?
- a) int arr[3] = (1,2,3);
- b) int arr $(3) = \{1,2,3\};$
- c) int arr $[3] = \{1,2,3\};$
- d) int arr(3) = (1,2,3);

View Answer

Answer: c

Explanation: This is the syntax to initialize an array in C.

- 3. How do you instantiate an array in Java?
- a) int arr[] = new int(3);
- b) int arr[];
- c) int arr[] = new int[3];
- d) int arr() = new int(3);

View Answer

Answer: c

Explanation: Note that option b is declaration whereas option c is to instantiate an array.

- 4. Which of the following is a correct way to declare a multidimensional array in Java?
- a) int[] arr;
- b) int arr[[]];
- c) int[][]arr;
- d) int[[]] arr;

View Answer

Answer: c

Explanation: The syntax to declare multidimensional array in java is either int[][] arr; or int arr[] [];

5. What is the output of the following piece of code?

```
public class array
{
    public static void main(String args[])
    {
        int []arr = {1,2,3,4,5};
        System.out.println(arr[2]);
        System.out.println(arr[4]);
    }
}

a) 3 and 5
b) 5 and 3
c) 2 and 4
d) 4 and 2
View Answer
```

Answer: a

Explanation: Array indexing starts from 0.

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6. What is the output of the following piece of code?

- a) 4
- b) 5

- c) ArrayIndexOutOfBoundsException
- d) InavlidInputException

View Answer

Answer: c

Explanation: Trying to access an element beyond the limits of an array gives ArrayIndexOutOfBoundsException.

- 7. When does the ArrayIndexOutOfBoundsException occur?
- a) Compile-time
- b) Run-time
- c) Not an error
- d) Not an exception at all

View Answer

Answer: b

Explanation: ArrayIndexOutOfBoundsException is a run-time exception and the compilation is error-free.

- 8. Which of the following concepts make extensive use of arrays?
- a) Binary trees
- b) Scheduling of processes
- c) Caching
- d) Spatial locality

View Answer

Answer: d

Explanation: Whenever a particular memory location is referred, it is likely that the locations nearby are also referred, arrays are stored as contigous blocks in memory, so if you want to access array elements, spatial locality makes it to access quickly.

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- 9. What are the advantages of arrays?
- a) Objects of mixed data types can be stored
- b) Elements in an array cannot be sorted
- c) Index of first element of an array is 1
- d) Easier to store elements of same data type

View Answer

Answer: d

Explanation: Arrays stores elements of same data type and present in continuous mem locations.

- 10. What are the disadvantages of arrays?
- a) Data structure like queue or stack cannot be implemented
- b) There are chances of wastage of memory space if elements inserted in an array are lesser than the allocated size
- c) Index value of an array can be negative
- d) Elements are sequentially accessed

View Answer

Answer: b

Explanation: Arrays are of fixed size. If we insert elements less than the allocated size, unoccupied positions can't be used again. Wastage will occur in memory.

- 11. Assuming int is of 4bytes, what is the size of int arr[15];?
- a) 15
- b) 19
- c) 11
- d) 60

View Answer

Answer: d

Explanation: Since there are 15 int elements and each int is of 4bytes, we get 15*4 = 60bytes.

12. In general, the index of the first element in an array is _____

- a) 0
- b) -1
- c) 2
- d) 1

View Answer

Answer: a

Explanation: In general, Array Indexing starts from 0. Thus, the index of the first element in an array is 0.

13. Elements in an array are accessed ______

- a) randomly
- b) sequentially
- c) exponentially
- d) logarithmically

View Answer

Answer: a

Explanation: Elements in an array are accessed randomly. In Linked lists, elements are accessed sequentially.

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Manish Bhojasia, a technology veteran with 20+ years @ Cisco & Wipro, is Founder and CTO at



Sanfoundry. He is Linux Kernel Developer & SAN Architect and is passionate about competency developments in these areas. He lives in Bangalore and delivers focused training sessions to IT professionals in Linux Kernel, Linux Debugging, Linux Device Drivers, Linux Networking, Linux Storage, Advanced C Programming, SAN Storage Technologies, SCSI Internals & Storage Protocols such as iSCSI & Fiber Channel. Stay connected with him @ LinkedIn

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