

1. Which of these best describes an array?

a) A data structure that shows a hierarchical behavior

b) Container of objects of similar types

c) Arrays are immutable once initialised

d) Array is not a data structure

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);`

7. When does the `ArrayIndexOutOfBoundsException` occur?

a) Compile-time

b) Run-time

- c) Not an error
- d) Not an exception at all

8. Which of the following concepts make extensive use of arrays?

- a) Binary trees
- b) Scheduling of processes
- c) Caching
- d) Spatial locality**

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**

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

11. Assuming int is of 4bytes, what is the size of int arr[15];?

a) 15

b) 19

c) 11

d) 60

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

a) 0

b) -1

c) 2

d) 1

View Answer

13. Elements in an array are accessed _____

a) randomly

b) sequentially

c) exponentially

d) logarithmically

View Answer