



Department of Computer Engineering

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Class: Computer & IT

Subject: 22226 PCI (Programming in C) MCQ

Unit 4: Array and Structure

MCQ Question Bank with Answers

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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

Answer: b

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);`

Answer: 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);`

Answer: c

4. Which of the following is the correct way to declare a multidimensional array in Java?

a) `int[] arr;`

b) `int arr[][];`

c) `int[][]arr;`

d) `int[[[]] arr;`

Answer: c

5. What is the output of the following Java 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

Answer: a

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

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

- a) 4
- b) 5
- c) `ArrayIndexOutOfBoundsException`
- d) `InvalidInputException`

Answer: c

7. When does the `ArrayIndexOutOfBoundsException` occur?

- a) Compile-time
- b) Run-time
- c) Not an error
- d) Not an exception at all

Answer: b

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

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

Answer: d

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

Answer: d

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

Answer: b

11. What is the maximum number of dimensions an array in C may have?

- A. Two
- B. eight
- C. sixteen
- D. Theoretically no limit. The only practical limits are memory size and compilers

Ans : D

12. A one dimensional array A has indices 1....75. Each element is a string and takes up three memory words. The array is stored at location 1120 decimal. The starting address of A[49] is

- A. 1264
- B. 1164
- C. 1167
- D. 1267

Ans : A

13. What will be the address of the arr[2][3] if arr is a 2-D long array of 4 rows and 5 columns and the starting address of the array is 2000?

- A. 2048
- B. 2056
- C. 2052
- D. 2042

Ans : C

14. Arrays can be considered as a set of elements stored in consecutive memory locations but having _____.

- A. Same data type
- B. Different data type
- C. Same scope
- D. None of these

Ans : A

15. Array is an example of _____ type memory allocation.

- A. Compile time
- B. Run time
- C. Both A and B
- D. None of the above

View Answer

Ans : A

16. Size of the array need not be specified, when

- A. Initialization is a part of definition
- B. It is a formal parameter
- C. It is a declaration
- D. All of the above

Ans : A

17. The information about an array used in program will be stored in

- A. Symbol Table
- B. Activation Record
- C. Dope Vector
- D. Both A and B

Ans : C

18. The parameter passing mechanism for an array is

- A. call by value
- B. call by reference
- C. call by value-result
- D. None of the above

Ans : B

19. A string that is a formal parameter can be declared

- A. An array with empty braces
- B. A pointer to character
- C. Both A and B

D. None of the above

Ans : C.

20. Which of the following functions is more appropriate for reading in a multi-word string?

A. scanf()

B. printf()

C. gets()

D. puts()

View Answer

Ans : C

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