

# C LANG TEST-7 (ARRAY)

Total points 50/50



**STUDENT NAME \***

Viva

✓ 1. An array in C is a collection of – \*

1/1

- A) Different data types
- B) Similar data types
- C) Both A and B
- D) None of these



✓ 2. Array elements are stored in – \*

1/1

- A) Continuous memory locations
- B) Random memory locations
- C) Linked memory locations
- D) Separate files



✓ 3. The first element of an array has an index — \*

1/1

- A) 1
- B) 0
- C) -1
- D) 2



✓ 4. The last element of an array with size n has an index — \*

1/1

- A) n
- B) n-1
- C) n+1
- D) n/2



✓ 5. The syntax for declaring an array in C is — \*

1/1

- A) data\_type array\_name[size];
- B) array\_name[size] data\_type;
- C) data\_type[size] array\_name;
- D) array(size)\_name;



✓ 6. Which of the following correctly declares an integer array of size 10? \* 1/1

- A) int arr[10];
- B) int arr;
- C) array int arr[10];
- D) int[10] arr;

✓

✓ 7. Array subscripts in C always start from — \* 1/1

- A) 0
- B) 1
- C) 2
- D) Depends on compiler

✓

✓ 8. The elements of an array can be accessed using — \* 1/1

- A) A string
- B) A subscript (index)
- C) A pointer only
- D) None

✓

✓ 9. The process of storing values in an array is called — \*

1/1

- A) Initialization
- B) Declaration
- C) Definition
- D) Evaluation

✓

✓ 10. What will be the size of the array int a[10];? \*

1/1

- A) 10 bytes
- B) 20 bytes
- C) 40 bytes (if int = 4 bytes)
- D) 4 bytes

✓

✓ 11. What is the index of the last element of int num[7];? \*

1/1

- A) 7
- B) 6
- C) 8
- D) 5

✓

✓ 12. Accessing an array element out of bounds in C leads to — \*

1/1

- A) Compilation error
- B) Undefined behavior
- C) Warning only
- D) Syntax error

✓

✓ 13. In C, array elements are always stored in — \*

1/1

- A) Column-major order
- B) Row-major order
- C) Random order
- D) User-specified order

✓

✓ 14. Which of the following is a valid initialization? \*

1/1

- A) `int a[3] = {1, 2, 3};`
- B) `int a[] = {1, 2, 3};`
- C) `int a[3] = {1, 2};`
- D) All of these

✓

✓ 15. The array name in C acts as a — \*

1/1

- A) Constant pointer
- B) Variable
- C) Function
- D) Dynamic variable

✓

✓ 16. Which of the following accesses the 5th element of an array marks? \* 1/1

- A) marks[5]
- B) marks(5)
- C) marks[4]
- D) marks{5}

✓

✓ 17. . The elements of a 2D array int a[3][4]; are stored in — \*

1/1

- A) 3 rows and 4 columns
- B) 4 rows and 3 columns
- C) 7 elements
- D) 12 columns

✓

✓ 18. The total number of elements in int a[3][4]; is – \*

1/1

- A) 7
- B) 12
- C) 10
- D) 3

✓

✓ 19. Which of the following is true for arrays in C? \*

1/1

- A) Size can be changed during execution
- B) Size must be a constant expression
- C) Array size is optional
- D) None

✓

✓ 20. The base address of an array arr is the address of – \*

1/1

- A) arr[0]
- B) arr[1]
- C) arr[2]
- D) None

✓

✓ 21. The array int a[5] = {0}; initializes – \*

1/1

- A) Only first element to 0
- B) All elements to 0
- C) Only last element to 0
- D) None

✓

✓ 22. Array elements are accessed using – \*

1/1

- A) [] operator
- B) {} operator
- C) () operator
- D) :: operator

✓

✓ 23. Which of these is invalid? \*

1/1

- A) int a[3] = {1, 2, 3};
- B) int a[] = {1, 2, 3, 4};
- C) int a[2] = {1, 2, 3};
- D) int a[3];

✓

✓ 24. To access a[2][3], the compiler calculates address using \*

1/1

- A) Row-major formula
- B) Column-major formula
- C) Random offset
- D) None

✓

✓ 25. Which header file is needed to use arrays? \*

1/1

- A) stdio.h
- B) array.h
- C) no header file needed
- D) conio.h

✓

✓ 26. Arrays can be passed to functions by — \*

1/1

- A) Value
- B) Reference (pointer)
- C) Copy
- D) Structure

✓

✓ 27. Arrays in C can store – \*

1/1

- A) Only integers
- B) Only characters
- C) Any one type of data
- D) Mixed data

✓

✓ 28. A character array is used to store – \*

1/1

- A) Numbers
- B) Strings
- C) Pointers
- D) None

✓

✓ 29. The null character in a string array is represented by – \*

1/1

- A) '/0'
- B) '\0'
- C) '0'
- D) 0

✓

✓ 30. What will int a[5] = {1,2}; contain? \*

1/1

- A) 1,2,0,0,0
- B) 1,2,garbage
- C) 1,2,3,4,5
- D) None

✓

✓ 31. The address of a[i] is given by – \*

1/1

- A) base(a) + i
- B) base(a) + i \* size of element
- C) base(a) \* i
- D) base(a) + 1

✓

✓ 32.What is the output? \*

1/1

```
int a[5] = {1,2,3,4,5};  
printf("%d", a[2]);
```

- A) 1
- B) 2
- C) 3
- D) 4

✓

✓ 33. . Arrays are also known as - \*

1/1

- A) Derived data types
- B) User-defined data types
- C) Primitive types
- D) None

✓

✓ 34. Which of these statements is true? \*

1/1

- A) Arrays can have variable length in C99 and above
- B) Arrays are always dynamic
- C) Arrays cannot be initialized
- D) Arrays are stored randomly

✓

✓ 35. The statement int arr[3][2] = {{1,2}, {3,4}, {5,6}}; creates how many elements?

\*1/1

- A) 5
- B) 6
- C) 7
- D) 8

✓

✓ 36. . In C, an array name without subscript gives – \*

1/1

- A) Base address of array
- B) Value of first element
- C) Address of last element
- D) None

✓

✓ 37. Which operator gives the size of an array? \*

1/1

- A) sizeof
- B) lengthof
- C) count
- D) size

✓

✓ 38.What is the output? \*

1/1

```
int a[2][2] = {{1,2},{3,4}};  
printf("%d", a[1][0]);
```

- A) 1
- B) 2
- C) 3
- D) 4

✓

✓ 39. In C, a string is actually — \*

1/1

- A) Array of characters
- B) Pointer to integer
- C) Function
- D) Structure

✓

✓ 40. To find the number of elements in array a, we use — \*

1/1

- A) sizeof(a)/sizeof(a[0])
- B) length(a)
- C) count(a)
- D) elements(a)

✓

✓ 41. What is the output? \*

1/1

```
int a[3] = {10,20,30};  
printf("%d", *(a+1));
```

- A) 10
- B) 20
- C) 30
- D) Error

✓

✓ 42. . What type of memory allocation is used for arrays? \*

1/1

- A) Static
- B) Dynamic
- C) Both
- D) Heap

✓

✓ 43. Which of the following cannot be changed after array declaration? \* 1/1

- A) Elements
- B) Size
- C) Index
- D) Value

✓

✓ 44. If int arr[5]; and arr is at address 2000, and each int is 4 bytes, what is the address of arr[3]? \*1/1

- A) 2012
- B) 2016
- C) 2020
- D) 2032

✓

✓ 45. A 3D array int a[2][3][4]; has how many elements? \*

1/1

- A) 24
- B) 12
- C) 9
- D) 18

✓

✓ 46. Arrays in C can have \*

1/1

- A) One dimension only
- B) Two dimensions only
- C) Multiple dimensions
- D) None

✓

✓ 47.What will be printed? \*

1/1

```
char name[6] = "CProg";
printf("%s", name);
```

- A) CProg
- B) CProg\0
- C) Error
- D) C

✓

✓ 48. Which of these is not a valid array operation? \*

1/1

- A) Accessing by index
- B) Adding arrays directly
- C) Assigning one array to another directly
- D) Both B and C

✓

✓ 49. What is the correct way to initialize a character array? \*

1/1

- A) char str[] = {'H','i','\0'};
- B) char str[] = "Hi";
- C) Both A and B
- D) None

✓

✓ 50. The elements of an array are always stored - \*

1/1

- A) Sequentially in memory
- B) In reverse order
- C) Randomly
- D) None

✓

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