

C LANG TEST-7 (ARRAY)

Total points 50/50 ?

STUDENT NAME *

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✓ 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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