

C++ TEST-7 (ARRAYS)

Total points 50/50 ?

STUDENT NAME *

VIVA

✓ 1. An array in C++ is: *

1/1

- ☐ A) A collection of variables of different types
- ☒ B) A collection of variables of the same type
- ☐ C) A pointer
- ☐ D) A structure



✓ 2. Array elements are stored in: *

1/1

- ☐ A) Random memory locations
- ☒ B) Sequential memory locations
- ☐ C) Different memory segments
- ☐ D) None of these



✓ 3. The index of the first element of an array in C++ is: *

1/1

- ☒ A) 0
- ☐ B) 1
- ☐ C) -1
- ☐ D) Depends on compiler



✓ 4. What is the correct way to declare an array? *

1/1

- ☐ A) int arr[];
- ☒ B) int arr[5];
- ☐ C) arr[5]int;
- ☐ D) int[5] arr;



✓ 5. What is the correct way to initialize an array? *

1/1

- ☒ A) int arr[3] = {1, 2, 3};
- ☐ B) int arr = {1, 2, 3};
- ☐ C) int arr[] = (1, 2, 3);
- ☐ D) array arr[3] = {1, 2, 3};



✓ 6. The size of an array must be: *

1/1

- ☐ A) A float value
- ☒ B) A positive integer constant
- ☐ C) A character
- ☐ D) A string



✓ 7. Which of the following accesses the third element of an array marks? * 1/1

- ☐ A) marks(3)
- ☐ B) marks[3]
- ☒ C) marks[2]
- ☐ D) marks.3



✓ 8. Which of the following is an invalid array declaration? * 1/1

- ☐ A) int a[10];
- ☐ B) float b[5];
- ☒ C) char c[0];
- ☐ D) double d[100];



✓ 9. What will happen if you try to access an element out of array bounds? * 1/1

- ☐ A) Compiler error
- ☐ B) Runtime error
- ☒ C) Undefined behavior
- ☐ D) Prints 0



✓ 10. Arrays in C++ are always: *

1/1

- ☐ A) One-dimensional
- ☐ B) Two-dimensional
- ☒ C) Static in size
- ☐ D) Dynamic



✓ 11. What is the output of this code? *

1/1

```
int arr[3] = {10, 20, 30};
```

```
cout << arr[1];
```

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



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

1/1

- ☐ A) <array.h>
- ☐ B) <iostream>
- ☒ C) No special header
- ☐ D) <stdio.h>



✓ 13. The last valid index of `int arr[10]`; is: *

1/1

- ☐ A) 10
- ☒ B) 9
- ☐ C) 11
- ☐ D) 0



✓ 14. What is the size in bytes of `int arr[5]`; if `int` is 4 bytes? *

1/1

- ☐ A) 4
- ☐ B) 5
- ☐ C) 10
- ☒ D) 20



✓ 15. Which of the following correctly copies one array to another? *

1/1

- ☐ A) `arr1 = arr2;`
- ☐ B) `arr1 == arr2;`
- ☒ C) Use a loop to assign each element
- ☐ D) Direct copy



✓ 16. Which function finds the length of an array? *

1/1

- ☒ A) sizeof(arr)/sizeof(arr[0])
- ☐ B) length(arr)
- ☐ C) size(arr)
- ☐ D) arr.length()



✓ 17. Which type of array has rows and columns? *

1/1

- ☐ A) 1D array
- ☒ B) 2D array
- ☐ C) Dynamic array
- ☐ D) Linked array



✓ 18. Declaration of a 2D array is done as: *

1/1

- ☒ A) int arr[3][4];
- ☐ B) int arr(3,4);
- ☐ C) int arr[3,4];
- ☐ D) array int arr[3][4];



✓ 19. How many elements are there in `int arr[4][3];`? *

1/1

- ☐ A) 4
- ☐ B) 3
- ☐ C) 7
- ☒ D) 12



✓ 20. Array names act as: *

1/1

- ☒ A) Constant pointers
- ☐ B) Variable pointers
- ☐ C) Functions
- ☐ D) Structures



✓ 21. The elements of a 2D array are stored in: *

1/1

- ☒ A) Row-major order
- ☐ B) Column-major order
- ☐ C) Random order
- ☐ D) None



✓ 22. What is the output of this code? *

1/1

```
int a[2][2] = {{1,2},{3,4}};
```

```
cout << a[1][0];
```

- ☐ A) 1
- ☐ B) 2
- ☒ C) 3
- ☐ D) 4



✓ 23. Arrays are passed to functions as: *

1/1

- ☐ A) Value
- ☒ B) Reference
- ☐ C) Copy
- ☐ D) None



✓ 24. Which is true about arrays and pointers? *

1/1

- ☒ A) Array name represents address of first element
- ☐ B) Both are same always
- ☐ C) Arrays store only characters
- ☐ D) None



✓ 25. What is the value of arr[2]? *

1/1

```
int arr[5] = {1, 2, 3, 4, 5};
```

- ☐ A) 1
- ☐ B) 2
- ☒ C) 3
- ☐ D) 4



✓ 26. An array index should always be: *

1/1

- ☒ A) Integer
- ☐ B) Float
- ☐ C) Character
- ☐ D) String



✓ 27. The elements of an array can be accessed using: *

1/1

- ☒ A) Subscript notation []
- ☐ B) Arrow operator
- ☐ C) Dot operator
- ☐ D) None



✓ 28. What is the output? *

1/1

```
int a[5] = {10,20,30};
```

```
cout << a[3];
```

- ☐ A) 10
- ☐ B) 20
- ☐ C) 30
- ☒ D) 0



✓ 29. Which of the following initializes all array elements to zero? *

1/1

- ☒ A) `int a[5] = {0};`
- ☐ B) `int a[5];`
- ☐ C) `int a[] = {};`
- ☐ D) `int a(5) = {0};`



✓ 30. Array subscripts can be: *

1/1

- ☐ A) Integer constant
- ☐ B) Integer variable
- ☐ C) Expression returning integer
- ☒ D) All of these



✓ 31. What is the base address of an array? *

1/1

- ☒ A) Address of first element
- ☐ B) Address of last element
- ☐ C) Random address
- ☐ D) None



✓ 32. Which of the following declares an array of 10 floats? *

1/1

- ☐ A) float arr(10);
- ☒ B) float arr[10];
- ☐ C) float[10] arr;
- ☐ D) array float arr;



✓ 33. What is the output? *

1/1

```
int arr[4] = {1,2,3,4};
```

```
cout << *(arr + 2);
```

- ☐ A) 1
- ☐ B) 2
- ☒ C) 3
- ☐ D) 4



✓ 34. Which operator is used with arrays to access elements? *

1/1

- ☐ A) ()
- ☒ B) []
- ☐ C) .
- ☐ D) ::



✓ 35. Arrays cannot be used with: *

1/1

- ☐ A) Pointers
- ☐ B) Loops
- ☐ C) Functions
- ☒ D) None of these



✓ 36. If an array has size 10, valid indices are: *

1/1

- ☐ A) 1–10
- ☐ B) 0–10
- ☒ C) 0–9
- ☐ D) 1–9



✓ 37. What will sizeof(arr) return for int arr[5]; if int=4 bytes? *

1/1

- ☐ A) 4
- ☐ B) 5
- ☒ C) 20
- ☐ D) 10



✓ 38. Which of the following can be used to traverse arrays easily? *

1/1

- ☐ A) For loop
- ☐ B) While loop
- ☐ C) Range-based for loop
- ☒ D) All of these



✓ 39. An array with three dimensions is known as: *

1/1

- ☐ A) Matrix
- ☐ B) Cube
- ☒ C) 3D array
- ☐ D) Vector



✓ 40. What is the correct declaration of a 3D array? *

1/1

- ☒ A) `int arr[2][3][4];`
- ☐ B) `int arr(2,3,4);`
- ☐ C) `array[2][3][4]int;`
- ☐ D) `int[2,3,4] arr;`



✓ 41. What is the total elements in `int arr[3][2][4];`? *

1/1

- ☐ A) 9
- ☒ B) 24
- ☐ C) 6
- ☐ D) 12



✓ 42. What is the default value of array elements in C++ if not initialized? * 1/1

- ☐ A) 0
- ☒ B) Garbage value
- ☐ C) Null
- ☐ D) Undefined



✓ 43. What is the result of: *

1/1

```
int a[3] = {5};
```

```
cout << a[1];
```

- ☒ A) 0
- ☐ B) 5
- ☐ C) Garbage
- ☐ D) Error



✓ 44. What will happen in: *

1/1

```
int a[] = {1,2,3,4,5};
```

```
cout << a[5];
```

- ☐ A) 5
- ☐ B) 0
- ☒ C) Garbage value
- ☐ D) Compilation error



✓ 45. Which of the following can be used to input array elements? *

1/1

- ☒ A) cin >> a[i];
- ☐ B) cout << a[i];
- ☐ C) scanf(a[i];
- ☐ D) read(a[i];



✓ 46. An array can be: *

1/1

- ☐ A) Local
- ☐ B) Global
- ☐ C) Static
- ☒ D) All of these



✓ 47. The total bytes occupied by double arr[5]; if double = 8 bytes? *

1/1

- ☐ A) 8
- ☐ B) 5
- ☒ C) 40
- ☐ D) 16



✓ 48. In C++, array elements can be of: *

1/1

- ☐ A) Only int type
- ☐ B) Only float type
- ☒ C) Any data type
- ☐ D) Only char type



✓ 49. Which of the following allows dynamic array size in C++? *

1/1

- ☒ A) Vectors
- ☐ B) Static arrays
- ☐ C) Global arrays
- ☐ D) Pointers



✓ 50. What is the correct way to pass an array to a function? *

1/1

- ☐ A) void func(int arr[]);
- ☐ B) void func(int *arr);
- ☒ C) Both A and B
- ☐ D) None



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