# Q1 What is the difference between a single dimensional array and a multi-dimensional array in C language?

- A) A single dimensional array has only one index, a multi-dimensional array has multiple indices
- B) A multi-dimensional array has only one index, a single dimensional array has multiple indices
- C) Both single dimensional arrays and multi-dimensional arrays have only one index
- D) None of the above

### Q2 What is the purpose of the subscript operator ([]) in an array in C language?

- A) To access elements of an array
- B) To store elements in an array
- C) To compare elements of an array
- D) None of the above

### Q3 What is the purpose of the pointer arithmetic in C language?

- A) To add or subtract a value from a pointer
- B) To compare two pointers
- C) To calculate the size of a pointer
- D) None of the above

### Q4 What is the difference between a string and an array in C language?

- A) A string is a sequence of characters, an array is a collection of variables of the same data type
- B) An array is a sequence of characters, a string is a collection of variables of the same data type
- C) Both strings and arrays are sequences of characters
- D) None of the above

# Q5 What is the purpose of the sizeof operator in C language? A) To change the size of an array B) To find the size of a variable or datatype C) To find the size of a saved program D) None of the above Q6 Can you store elements of different data types in a two-dimensional array in C language? A) Yes B) No C) Only Character array can store 'Double' type values D) Only Integer array can store a string Q7 What is the purpose of the sort function in C language when working with arrays? A) To sort the elements of an array in ascending or descending order B) To access elements of an array C) To compare elements of an array D) None of the above Q8 What is a pointer in C language? A) A variable that holds the address of another variable B) A variable that holds the value of another variable C) A variable that holds the name of another variable D) None of the above Q9 What is the purpose of the & operator in C language?

A) To get the address of a variable

B) To get the value of a variable

C) To compare two variables

D) None of the above

### Q10 What is the difference between a pre-decrement and a post-decrement operator in C language?

- A) The pre-decrement operator decrements the value of a variable before using it, the post-decrement operator decrements the value of a variable after using it
- B) The post-decrement operator decrements the value of a variable before using it, the pre-decrement operator decrements the value of a variable after using it
- C) Both pre-decrement and post-decrement operators decrement the value of a variable before using it
- D) None of the above

### 11. Consider the following code in C:

```
int i = 1;
while (i <= 5)
{ if (i % 2 == 0)
{ break;
}
printf("%d ", i);
i = i + 2; }
What is the output of the code?
a) 1 3 5
b) 2
c) 1 3
d) 1</pre>
```

### 12. Can you have multiple functions with the same name in C programming?

- a) Yes, if the functions have different parameters \*(Correct option)
- b) No, functions must have unique names
- c) Yes, if the functions are declared in different files
- d) Yes, if the functions are defined using the inline keyword.

### 13. What is the difference between a pointer and a normal variable in C?

- a) A normal variable stores the value of a data type, while a pointer stores the memory address of a variable
- b) Pointers are always faster than normal variables
- c) Pointers are always smaller in size than normal variables
- d) Normal variables can only be used inside a function, while pointers can be used globally

### 14. What will be the output of the following code?

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

printf("%d", *(*arr + 1) + *(*(arr+1)+1));
a) 3
b) 4
c) 2
d) 6
```

### 15. What will be the output of the following code?

```
char name[10] = "Hello";
char *ptr = name;
printf("%c", *(ptr+2));
a) 'H'
b) 'e'
c) 'l'
d) "llo"
```

### Q16 What is the purpose of the strcat() function in C language?

- A) To concatenate two strings
- B) To compare two strings
- C) To reverse a string
- D) None of the above

### Q17 What is the purpose of the break statement in C language?

- A) To exit a loop
- B) To continue a loop
- C) To transfer control to another part of the program
- D) None of the above

### Q18 What is the purpose of the void pointer in C language?

- A) To hold the address of any data type
- B) To hold the value of any data type
- C) To compare two pointers
- D) None of the above

### Q19 What is the purpose of the call by reference in C language?

- A) To pass the value of an argument to a function
- B) To pass the address of an argument to a function
- C) To pass a pointer to a function
- D) None of the above

### Q20 What is an array in C language?

- A) A collection of variables of the same data type
- B) A collection of variables of different data types
- C) A single variable
- D) None of the above

### Q21 What is the purpose of the & operator in C language?

- A) To get the address of a variable
- B) To get the value of a variable
- C) To compare two variables
- D) None of the above

Q22 What is the purpose of the * operator in C language?
A) To get the value stored at an address
B) To get the address of a variable
C) To compare two variables
D) None of the above
Q23 Can you change the size of an array once it has been declared in C language?
A) Yes
B) No
C) Can be changed while passing to other functions
D) Cannot be changed only when passing to other functions
Q24 What is the purpose of the for loop in C language when working with arrays?
<b>Q24</b> What is the purpose of the for loop in C language when working with arrays?  A) To access elements of an array
A) To access elements of an array
A) To access elements of an array B) To compare elements of an array
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A) To access elements of an array B) To compare elements of an array C) All of the Above D) None of the above  Q25 Can you store elements of different data types in an array in C language? A) Yes B) No

# 26.Can you nest a for loop inside a while loop in C?a) Yesb) Noc) Only if the inner loop is a while loopd) Only if the inner loop is a for loop

## 27. What is the purpose of the void keyword in C?

- a) To specify that a function does not return a value
- b) To declare a variable as void
- c) To declare a pointer as void
- d) To specify that a function returns a void value

### 28. What is the syntax for declaring a pointer in C?

- a) pointer\_name;
- b) &pointer\_name;
- c) \*pointer\_name;
- d) pointer\_name \*;

### 29. What will be the output of the following code?

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

printf("%d", **arr + *(*(arr+1)+1));

a) 4

b) 5
```

- c) 6
- d) 7

# 30. What will be the output of the following code?

```
char name[10] = "Hit";
char *ptr = name;
printf("%c", *ptr+3);
```

- a) 'H'
- b) 'e'
- c) 'K'
- d) "llo"