

C Programming MCQ Questions

1. Which of the following is a valid C variable name?

- a) 1variable
- b) variable_1
- c) variable-1
- d) variable.1

Answer: variable_1

2. Which keyword is used to define a constant in C?

- a) const
- b) constant
- c) define
- d) fixed

Answer: const

3. Which of the following is used to dynamically allocate memory in C?

- a) malloc
- b) alloc
- c) memalloc
- d) new

Answer: malloc

4. Which function is used to read a string from the user?

- a) scanf
- b) gets
- c) printf
- d) input

Answer: gets

5. What is the size of an int in a 32-bit system?

- a) 2 bytes
- b) 4 bytes
- c) 8 bytes
- d) Depends on compiler

Answer: 4 bytes

6. Which of the following is a correct syntax for a function declaration?

- a) int function;
- b) int function()
- c) function int();
- d) int = function()

Answer: int function()

7. Which operator is used to access the value at the address stored in a pointer?

- a) &
- b) *
- c) ->
- d) %

Answer: *

8. Which header file includes the printf and scanf functions?

- a) stdlib.h
- b) stdio.h
- c) conio.h
- d) math.h

Answer: stdio.h

9. Which of the following is used to terminate a loop in C?

- a) end
- b) stop
- c) terminate

d) break

Answer: break

10. What is the output of: `printf("%d", 5 + 3 * 2);`

a) 11

b) 16

c) 13

d) 10

Answer: 11

11. Which of these is not a storage class in C?

a) auto

b) register

c) static

d) mutable

Answer: mutable

12. Which data structure uses FIFO principle?

a) Stack

b) Queue

c) Array

d) Tree

Answer: Queue

13. Which data structure uses LIFO principle?

a) Stack

b) Queue

c) Graph

d) Heap

Answer: Stack

14. Which traversal of BST gives sorted order?

- a) Preorder
- b) Inorder
- c) Postorder
- d) Level-order

Answer: Inorder

15. Which function is used to free dynamically allocated memory?

- a) remove()
- b) delete()
- c) free()
- d) dealloc()

Answer: free

16. Which sorting algorithm is divide-and-conquer based?

- a) Bubble Sort
- b) Insertion Sort
- c) Merge Sort
- d) Selection Sort

Answer: Merge Sort

17. Which of these is not a valid loop in C?

- a) for
- b) foreach
- c) while
- d) do-while

Answer: foreach

18. What is the keyword used to define a structure?

- a) struct
- b) structure
- c) class

d) record

Answer: struct

19. Which function is used to compare two strings in C?

a) strcmp()

b) strcompare()

c) equal()

d) cmp()

Answer: strcmp()

20. Which operator is used for modulo division?

a) %

b) &

c) /

d) //

Answer: %

21. In recursion, what is the base case?

a) First call

b) Last call

c) Stopping condition

d) Middle condition

Answer: Stopping condition

22. Which of the following is not part of C memory model?

a) Stack

b) Heap

c) Static

d) RAM

Answer: RAM

23. Which traversal method is used in DFS?

- a) Queue
- b) Stack
- c) Tree
- d) List

Answer: Stack

24. Which function is used to open a file in C?

- a) fopen
- b) file_open
- c) open
- d) fileopen

Answer: fopen

25. Which keyword is used to return value from a function?

- a) send
- b) exit
- c) return
- d) break

Answer: return

26. Which symbol is used for single-line comment in C?

- a) //
- b) /*
- c) #
- d) --

Answer: //

27. Which symbol is used for multi-line comment in C?

- a) //
- b) /* */
- c) #

d) --

Answer: /* */

28. Which of the following is not a primitive data type in C?

a) int

b) char

c) float

d) string

Answer: string

29. Which sorting algorithm generally performs best?

a) Selection Sort

b) Bubble Sort

c) Merge Sort

d) Quick Sort

Answer: Quick Sort

30. Which of the following is not a relational operator?

a) <=

b) !=

c) ==

d) =

Answer: =

31. How many bytes are in a float typically?

a) 2

b) 4

c) 6

d) 8

Answer: 4

32. What is the default return type of a function if none is specified?

- a) void
- b) int
- c) float
- d) char

Answer: int

33. Which of the following is not a valid escape sequence?

- a) \n
- b) \t
- c) \x
- d) \y

Answer: \y

34. Which data structure is used in BFS?

- a) Queue
- b) Stack
- c) Array
- d) Heap

Answer: Queue

35. What does NULL pointer represent?

- a) Garbage address
- b) Valid address
- c) Zero value
- d) Invalid memory location

Answer: Invalid memory location

36. Which bitwise operator is used to set bits?

- a) &
- b) |
- c) ^

d) ~

Answer: |

37. Which of the following denotes logical AND?

a) &

b) |

c) &&

d) ||

Answer: &&

38. Which of these is not a logical operator in C?

a) &&

b) ||

c) !

d) &

Answer: &

39. Which function is used to get length of a string?

a) strlen()

b) length()

c) strlenth()

d) len()

Answer: strlen()

40. Which is the correct extension of C files?

a) .cpp

b) .c

c) .java

d) .py

Answer: .c

41. Which of the following is used to declare a pointer?

- a) int &p
- b) int *p
- c) int p*
- d) int p&

Answer: int *p

42. Which algorithm selects a pivot element?

- a) Bubble Sort
- b) Merge Sort
- c) Quick Sort
- d) Insertion Sort

Answer: Quick Sort

43. Which keyword prevents a variable from being modified?

- a) static
- b) final
- c) const
- d) protected

Answer: const

44. What is used to pass values to a function in C?

- a) Arguments
- b) Parameters
- c) Passers
- d) Inputs

Answer: Arguments

45. Which sorting is best suited for small datasets?

- a) Quick Sort
- b) Merge Sort
- c) Bubble Sort

d) Selection Sort

Answer: Bubble Sort

46. Which operator is used to access members of a struct pointer?

a) .

b) :

c) ->

d) *

Answer: ->

47. Which header file includes malloc()?

a) stdlib.h

b) stdio.h

c) string.h

d) math.h

Answer: stdlib.h

48. Which header file includes string operations?

a) math.h

b) string.h

c) stdio.h

d) stdlib.h

Answer: string.h