

C Programming

100 Multiple-Choice Questions

Basic • Intermediate • Advanced • Interview & Placement

SkillovaHub

C Programming MCQs

These MCQs cover important C programming concepts and are useful for examination, interview and placement preparation.

Basic C Programming MCQs

1. Who developed the C programming language?

- A. James Gosling
- B. Dennis Ritchie
- C. Bjarne Stroustrup
- D. Guido van Rossum

Answer: B. Dennis Ritchie

2. Which function is the starting point of every C program?

- A. start()
- B. begin()
- C. main()
- D. run()

Answer: C. main()

3. Which header file is required for printf()?

- A. string.h
- B. stdio.h
- C. math.h
- D. stdlib.h

Answer: B. stdio.h

4. Which symbol is used to end a C statement?

- A. :
- B. ;
- C. ,
- D. .

Answer: B. ;

5. Which data type is used to store a single character in C?

- A. int
- B. float
- C. char
- D. string

Answer: C. char

6. Which operator is used to get the address of a variable?

- A. *
- B. %
- C. &

D. #

Answer: C. &

7. Which loop executes at least once?

A. for

B. while

C. do-while

D. None of these

Answer: C. do-while

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

A. const

B. constant

C. fixed

D. final

Answer: A. const

9. Which function is used to read formatted input from the keyboard?

A. printf()

B. scanf()

C. gets()

D. puts()

Answer: B. scanf()

10. Which operator is used for multiplication?

A. %

B. *

C. /

D. +

Answer: B. *

11. Which header file is required for memory allocation functions?

A. stdio.h

B. string.h

C. stdlib.h

D. math.h

Answer: C. stdlib.h

12. Which keyword is used to create a user-defined data type alias?

A. define

B. typedef

C. struct

D. enum

Answer: B. typedef

13. Which symbol is used to access structure members?

- A. :
- B. ->
- C. .
- D. #

Answer: C. .

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

- A. open()
- B. fopen()
- C. fileopen()
- D. create()

Answer: B. fopen()

15. Which function is used to close a file?

- A. fclose()
- B. close()
- C. endfile()
- D. fileclose()

Answer: A. fclose()

16. Which operator is used for the modulus operation in C?

- A. /
- B. %
- C. *
- D. +

Answer: B. %

17. Which loop is best when the number of iterations is known?

- A. while
- B. do-while
- C. for
- D. switch

Answer: C. for

18. Which keyword is used to exit a loop immediately?

- A. continue
- B. stop
- C. break
- D. exit

Answer: C. break

19. Which function is used to calculate the length of a string?

- A. strlen()
- B. sizeof()
- C. strcat()

D. strcpy()

Answer: A. strlen()

20. Which header file contains string handling functions?

A. stdio.h

B. string.h

C. stdlib.h

D. math.h

Answer: B. string.h

21. Which function is used to copy one string to another?

A. strcat()

B. strcpy()

C. strcmp()

D. strlen()

Answer: B. strcpy()

22. Which function compares two strings?

A. strcmp()

B. strcpy()

C. strcat()

D. strlen()

Answer: A. strcmp()

23. Which function is used to concatenate two strings?

A. strcpy()

B. strcmp()

C. strcat()

D. strlen()

Answer: C. strcat()

24. Which keyword is used to define a structure?

A. union

B. typedef

C. struct

D. class

Answer: C. struct

25. Which keyword is used to define an enumeration?

A. typedef

B. struct

C. enum

D. union

Answer: C. enum

Intermediate C Programming MCQs

26. Which operator is used to access the value stored at a pointer?

- A. &
- B. *
- C. %
- D. #

Answer: B. *

27. What is an infinite loop?

- A. malloc()
- B. printf()
- C. scanf()
- D. fopen()

Answer: A. malloc()

28. Which function allocates memory and initializes it to zero?

- A. malloc()
- B. realloc()
- C. calloc()
- D. free()

Answer: C. calloc()

29. Which function changes the size of allocated memory?

- A. malloc()
- B. realloc()
- C. calloc()
- D. free()

Answer: B. realloc()

30. Which function is used to release dynamically allocated memory?

- A. delete()
- B. free()
- C. remove()
- D. release()

Answer: B. free()

31. Which operator is used to determine the size of a data type?

- A. length
- B. size
- C. sizeof
- D. count

Answer: C. sizeof

32. Which file mode is used to open a file for reading?

- A. w
- B. a
- C. r
- D. rw

Answer: C. r

33. Which file mode is used to append data to a file?

- A. r
- B. w
- C. a
- D. x

Answer: C. a

34. Which storage class preserves a variable's value between function calls?

- A. auto
- B. register
- C. static
- D. extern

Answer: C. static

35. Which storage class is used to declare a global variable defined in another file?

- A. auto
- B. register
- C. static
- D. extern

Answer: D. extern

36. Which operator is used to access a structure member through a pointer?

- A. .
- B. ::
- C. ->
- D. &

Answer: C. ->

37. Which function is used to write formatted data to a file?

- A. printf()
- B. fprintf()
- C. scanf()
- D. fwrite()

Answer: B. fprintf()

38. Which function is used to read formatted data from a file?

- A. fscanf()
- B. fread()
- C. gets()

D. scanf()

Answer: A. fscanf()

39. Which operator returns the memory address of a variable?

A. *

B. &

C. %

D. #

Answer: B. &

40. Which keyword creates a symbolic constant?

A. const

B. define

C. #define

D. fixed

Answer: C. #define

41. Which bitwise operator performs the AND operation?

A. |

B. ^

C. &

D. ~

Answer: C. &

42. Which bitwise operator performs the OR operation?

A. |

B. &

C. ^

D. >>

Answer: A. |

43. Which bitwise operator performs the XOR operation?

A. &

B. |

C. ^

D. ~

Answer: C. ^

44. Which operator shifts bits to the left?

A. >>

B. <<

C. &

D. ^

Answer: B. <<

45. Which operator shifts bits to the right?

- A. <<
- B. >>
- C. |
- D. %

Answer: B. >>

46. Which keyword is used to define an enumeration?

- A. struct
- B. typedef
- C. enum
- D. union

Answer: C. enum

47. Which function calls itself?

- A. Inline Function
- B. Recursive Function
- C. Library Function
- D. Main Function

Answer: B. Recursive Function

48. Which storage class is the default for local variables?

- A. extern
- B. static
- C. auto
- D. register

Answer: C. auto

49. Which header file contains the malloc() function?

- A. string.h
- B. math.h
- C. stdlib.h
- D. stdio.h

Answer: C. stdlib.h

50. Which library function is used to compare two strings?

- A. strcpy()
- B. strcmp()
- C. strcat()
- D. strlen()

Answer: B. strcmp()

Advanced C Programming MCQs

51. Which function is used to move the file pointer to a specific location?

- A. rewind()

- B. fseek()
- C. ftell()
- D. fclose()

Answer: B. fseek()

52. Which function returns the current position of the file pointer?

- A. ftell()
- B. fseek()
- C. rewind()
- D. fgets()

Answer: A. ftell()

53. Which function moves the file pointer to the beginning of a file?

- A. fseek()
- B. rewind()
- C. ftell()
- D. remove()

Answer: B. rewind()

54. Which function is used to delete a file?

- A. delete()
- B. erase()
- C. remove()
- D. unlink()

Answer: C. remove()

55. Which function is used to rename a file?

- A. rename()
- B. change()
- C. move()
- D. update()

Answer: A. rename()

56. Which operator has the highest precedence in C?

- A. +
- B. *
- C. ()
- D. =

Answer: C. ()

57. Which operator is used for pointer dereferencing?

- A. &
- B. *
- C. %
- D. #

Answer: B. *

58. Which keyword prevents modification of a variable?

- A. static
- B. register
- C. const
- D. extern

Answer: C. const

59. Which operator is known as the conditional operator?

- A. ::
- B. ? :
- C. &&
- D. ||

Answer: B. ? :

60. Which keyword is used to skip the current iteration of a loop?

- A. break
- B. exit
- C. continue
- D. goto

Answer: C. continue

61. Which function reads a single character from a file?

- A. fgetc()
- B. fgets()
- C. fscanf()
- D. fread()

Answer: A. fgetc()

62. Which function writes a single character to a file?

- A. fputc()
- B. fputs()
- C. fprintf()
- D. fwrite()

Answer: A. fputc()

63. Which function reads a string from a file?

- A. fgets()
- B. gets()
- C. fread()
- D. scanf()

Answer: A. fgets()

64. Which function writes a string to a file?

- A. fputs()

- B. puts()
- C. fwrite()
- D. fprintf()

Answer: A. fputs()

65. Which function is used to read binary data from a file?

- A. fread()
- B. fscanf()
- C. fgets()
- D. fgetc()

Answer: A. fread()

66. Which function is used to write binary data to a file?

- A. fwrite()
- B. fprintf()
- C. fputs()
- D. putchar()

Answer: A. fwrite()

67. Which keyword is used to transfer control to another part of the program?

- A. continue
- B. goto
- C. break
- D. return

Answer: B. goto

68. Which keyword terminates a function and returns control to the caller?

- A. break
- B. exit
- C. return
- D. continue

Answer: C. return

69. Which operator is used to access structure members through an object?

- A. .
- B. ->
- C. ::
- D. #

Answer: A. .

70. Which keyword is used to define a union?

- A. struct
- B. typedef
- C. enum
- D. union

Answer: D. union

71. Which operator is used for logical AND?

- A. &
- B. &&
- C. ||
- D. ^

Answer: B. &&

72. Which operator is used for logical OR?

- A. |
- B. ||
- C. &&
- D. ^

Answer: B. ||

73. Which operator is used for logical NOT?

- A. \~
- B. !
- C. #
- D. %

Answer: B. !

74. Which keyword is used to define a macro?

- A. macro
- B. const
- C. #define
- D. typedef

Answer: C. #define

75. Which header file contains mathematical functions such as sqrt() and pow()?

- A. stdio.h
- B. string.h
- C. stdlib.h
- D. math.h

Answer: D. math.h

Interview & Placement MCQs

76. What is the default return type of the main() function in C?

- A. void
- B. char
- C. int
- D. float

Answer: C. int

77. Which keyword is used to define a constant variable?

- A. static
- B. const
- C. define
- D. final

Answer: B. const

78. Which operator is used to compare two values for equality?

- A. =
- B. ==
- C. !=
- D. <=

Answer: B. ==

79. Which loop is guaranteed to execute at least once?

- A. for
- B. while
- C. do-while
- D. None of these

Answer: C. do-while

80. Which statement is used to select one option from multiple choices?

- A. if
- B. switch
- C. for
- D. while

Answer: B. switch

81. Which function displays output on the screen?

- A. scanf()
- B. printf()
- C. gets()
- D. fopen()

Answer: B. printf()

82. Which function reads input from the keyboard?

- A. scanf()
- B. printf()
- C. puts()
- D. fopen()

Answer: A. scanf()

83. Which operator is used to access the address of a variable?

- A. *
- B. &

C. %

D. #

Answer: B. &

84. Which symbol is used to end a C statement?

A. :

B. ;

C. ,

D. .

Answer: B. ;

85. Which header file contains printf() and scanf()?

A. stdlib.h

B. math.h

C. stdio.h

D. string.h

Answer: C. stdio.h

86. Which data type stores decimal values?

A. int

B. char

C. float

D. short

Answer: C. float

87. Which keyword is used to define a function that returns no value?

A. null

B. void

C. empty

D. return

Answer: B. void

88. Which loop is generally preferred for counting iterations?

A. while

B. do-while

C. for

D. switch

Answer: C. for

89. Which function is used to compare two strings?

A. strcpy()

B. strcmp()

C. strcat()

D. strlen()

Answer: B. strcmp()

90. Which function is used to find the length of a string?

- A. strcpy()
- B. strlen()
- C. strcmp()
- D. strcat()

Answer: B. strlen()

91. Which keyword is used to define a structure?

- A. class
- B. struct
- C. enum
- D. union

Answer: B. struct

92. Which keyword is used to define a union?

- A. typedef
- B. struct
- C. union
- D. enum

Answer: C. union

93. Which keyword is used to define an enumeration?

- A. enum
- B. typedef
- C. struct
- D. class

Answer: A. enum

94. Which keyword is used to create an alias for a data type?

- A. define
- B. typedef
- C. struct
- D. enum

Answer: B. typedef

95. Which operator is used for logical NOT?

- A. !
- B. \~
- C. &&
- D. ||

Answer: A. !

96. Which function is used to allocate memory dynamically?

- A. malloc()
- B. printf()

C. fopen()

D. scanf()

Answer: A. malloc()

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

A. delete()

B. free()

C. release()

D. remove()

Answer: B. free()

98. Which keyword is used to exit a function?

A. break

B. continue

C. return

D. exit

Answer: C. return

99. Which operator is used to access a structure member through a pointer?

A. .

B. ->

C. ::

D. #

Answer: B. ->

100. Which language is known as the mother of many modern programming languages?

A. Java

B. Python

C. C

D. C#

Answer: C. C

Practice Tips

- Read each question carefully before selecting an answer.
- Practice C programs along with MCQs to strengthen your concepts.
- Revise important topics such as pointers, arrays, functions, structures, and file handling.
- Analyze incorrect answers to improve your understanding.
- Regular practice will improve your confidence in examinations and technical interviews.