

BASIC C++ QUESTIONS

- 1. Write a program to print "Hello, World!".**
- 2. Write a program to add two integers.**
- 3. Write a program to find the size of different data types.**
- 4. Write a program to swap two numbers using a temporary variable.**
- 5. Write a program to calculate the area of a circle.**
- 6. Write a program to convert temperature from Celsius to Fahrenheit.**
- 7. Write a program to check if a number is even or odd.**
- 8. Write a program to find the largest of two numbers.**
- 9. Write a program to find ASCII value of a character.**
- 10. Write a program to compute the sum of digits of a number.**

Control Structures (11–25)

- 11. Write a program to find whether a number is positive, negative, or zero.**
- 12. Write a program to check whether a year is a leap year.**

- 13. Write a program to print numbers from 1 to 100.**
- 14. Write a program to print the multiplication table of a number.**
- 15. Write a program to find the factorial of a number using a loop.**
- 16. Write a program to find the reverse of a number.**
- 17. Write a program to count the number of digits in a number**
- 18. Write a program to calculate the sum of first N natural numbers.**
- 19. Write a program to print all even numbers from 1 to 100.**
- 20. Write a program to check if a number is prime.**
- 21. Write a program to generate Fibonacci series up to N terms.**
- 22. Write a program to print a number pattern (e.g., triangle).**
- 23. Write a program to find the power of a number using loops.**
- 24. Write a program to check if a number is a palindrome.**
- 25. Write a program to find LCM and GCD of two numbers.**

Functions (26–35)

- 26. Write a function to find the maximum of three numbers.**
- 27. Write a function to compute the factorial of a number.**
- 28. Write a function to check if a number is a prime number.**
- 29. Write a program to demonstrate function call by value.**
- 30. Write a program to demonstrate function call by reference using pointers.**
- 31. Write a function to compute the sum of digits.**
- 32. Write a recursive function to compute factorial.**
- 33. Write a recursive function to generate Fibonacci series.**
- 34. Write a function to reverse a number.**
- 35. Write a function to swap two numbers using pointers.**

Arrays (36–50)

- 36. Write a program to read and print elements of an array.**
- 37. Write a program to find the sum and average of elements in an array.**

38. Write a program to find the largest element in an array

39. Write a program to find the smallest element in an array.

40. Write a program to copy elements from one array to another.

41. Write a program to reverse an array.

42. Write a program to search for an element in an array.

43. Write a program to sort an array using bubble sort.

44. Write a program to merge two arrays.

45. Write a program to insert an element at a specific position in an array.

46. Write a program to delete an element from an array.

47. Write a program to count even and odd elements in an array.

48. Write a program to find the second largest element in an array.

49. Write a program to find duplicate elements in an array.

50. Write a program to count frequency of each element in an array.

Strings (51–65)

- 51. Write a program to read and print a string.**
- 52. Write a program to find the length of a string.**
- 53. Write a program to copy one string to another.**
- 54. Write a program to reverse a string.**
- 55. Write a program to concatenate two strings.**
- 56. Write a program to compare two strings.**
- 57. Write a program to count vowels and consonants in a string.**
- 58. Write a program to count the number of words in a string.**
- 59. Write a program to check whether a string is palindrome.**
- 60. Write a program to convert a string to uppercase.**
- 61. Write a program to convert a string to lowercase.**
- 62. Write a program to find a substring in a string.**
- 63. Write a program to remove spaces from a string.**
- 64. Write a program to remove all vowels from a string.**

65. Write a program to find the frequency of characters in a string

Pointers (66–75)

66. Write a program to demonstrate the use of pointers.

67. Write a program to swap two numbers using pointers.

68. Write a program to find the sum of an array using pointers.

69. Write a program to reverse an array using pointers.

70. Write a program to access array elements using pointers.

71. Write a program to print addresses of elements in an array.

72. Write a program to find length of a string using pointer.

73. Write a program to copy a string using pointers.

74. Write a program to compare two strings using pointers.

75. Write a program to pass pointer to a function.

Structures and Unions (76–85)

76. Define a structure for student and display student data.

77. Write a program to read and display employee details.

78. Write a program to store and display book details using array of structures.

79. Write a program to add two distances (feet and inches) using structures.

80. Write a program to demonstrate nested structures.

81. Write a program to sort records using structure.

82. Write a program to store and display date using structure.

83. Write a program to use union and display data.

84. Write a program to demonstrate difference between structure and union.

85. Write a program to pass structure to function.

File Handling (86–90)

86. Write a program to create and write into a file.

87. Write a program to read content from a file.

88. Write a program to copy content of one file to another.

89. Write a program to count characters, words and lines in a file.

90. Write a program to append data to an existing file.

Dynamic Memory Allocation (91–95)

91. Write a program to use malloc () to create an integer array.

92. Write a program to reallocate memory using realloc().

93. Write a program to free allocated memory using free().

94. Write a program to use calloc() for allocating memory.

95. Write a program to store N numbers using dynamic memory allocation.

Miscellaneous / Advanced (96–100)

96. Write a program to implement a calculator using switch case.

97. Write a program to implement binary search.

98. Write a program to find transpose of a matrix.

99. Write a program to add two matrices.

100. Write a program to multiply two matrices.

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