

Mission Placement – 2022

Coding

Now a days almost every company has got a coding round where you are supposed to write an error free program and run it for the mentioned test cases successfully. Generally the languages you are allowed to use are C, C++, Java or Python. Following are some examples. Practice these codes.

1. Positive or Negative number
2. Even or Odd number
3. Sum of First N Natural numbers
4. Sum of N natural numbers
5. Sum of numbers in a given range
6. Greatest of two numbers
7. Greatest of the Three numbers
8. Leap year or not
9. Prime number
10. Prime number within a given range
11. Sum of digits of a number
12. Reverse of a number
13. Palindrome number
14. Armstrong number
15. Armstrong number in a given range

16. Fibonacci Series upto nth term
17. Factorial of a number
18. Power of a number
19. Factor of a number
20. Perfect number
21. Automorphic number
22. Harshad number
23. Abundant number
24. Friendly pair
25. Highest Common Factor(HCF)
26. Lowest Common Multiple (LCM)
27. Greatest Common Divisor
28. Binary to Decimal to conversion
29. Binary to Octal conversion
30. Decimal to Binary conversion
31. Decimal to octal Conversion
32. Octal to Binary conversion
33. Octal to Decimal conversion
34. Quadrants in which a given coordinate lies
35. Permutations in which n people can occupy r seats in a classroom
36. Maximum number of handshakes
37. Addition of two fractions
38. Replace all 0's with 1 in a given integer

39. Can a number be expressed as a sum of two prime numbers
40. Count possible decoding of a given digit sequence
41. Check whether a character is a vowel or consonant
42. Check whether a character is a alphabet or not
43. Calculate the area of a circle
44. Find the ASCII value of a character
45. Find the prime numbers between 1 to 100
46. Calculate the number of digits in an integer
47. Convert digit/number to words
48. Counting number of days in a given month of a year
49. Finding Number of times x digit occurs in a given input
50. Finding number of integers which has exactly x divisors
51. Finding Roots of a quadratic equation
52. Important Codes related to Arrays
53. Find Smallest Element in an Array
54. Find Second Smallest Element in an Array
55. Find Largest element in an array
56. Find the Smallest and largest element in an array
57. Calculate the sum of elements in an array
58. Reverse an Array
59. Sort first half in ascending order and second half in descending
60. Sort the elements of an array
61. Finding the frequency of elements in an array

62. Finding the Longest Palindrome in an Array
63. Counting Distinct Elements in an Array
64. Finding Repeating elements in an Array
65. Finding Non Repeating elements in an Array
66. Removing Duplicate elements from an array
67. Finding Minimum scalar product of two vectors
68. Finding Maximum scalar product of two vectors in an array
69. Counting the number of even and odd elements in array
70. Find all Symmetric pairs in an array
71. Find maximum product sub-array in a given array
72. Finding Arrays are disjoint or not
73. Determine Array is a subset of another array or not
74. Determine can all numbers of an array be made equal
75. Finding Minimum sum of absolute difference of given array
76. Sorting elements of an array by frequency
77. Sort an array according to the order defined by another array
78. Replace each element of the array by its rank in the array
79. Finding equilibrium index of an array
80. Rotation of elements of array- left and right
81. Block swap algorithm for array rotation

82. Juggling algorithm for array rotation
83. Finding Circular rotation of an array by K positions
84. Program for Pyramid star pattern
85. Program for Pyramid number pattern
86. Program for Palindromic Pyramid Pattern
87. Program for Diamond star pattern
88. Program for Diamond number pattern
89. Program for Floyd's Triangle
90. Program for Pascal triangle
91. Program to Check array similarity
92. Program for Square sum
93. Program for Longest palindrome in the array
94. Length of the string without using strlen() function
95. Toggle each character in a string
96. Count the number of vowels
97. Remove the vowels from a String
98. Check if the given string is Palindrome or not
99. Print the given string in reverse order
100. Remove all characters from string except alphabets
101. Remove spaces from a string
102. Remove brackets from an algebraic expression
103. Count the sum of numbers in a string
104. Capitalize the first and last character of each word of a string
105. Calculate frequency of characters in a string

- 106. Find non-repeating characters in a string
- 107. Check if two strings are Anagram or not
- 108. Replace a sub-string in a string
- 109. Count common sub-sequence in two strings
- 110. Check if two strings match where one string contains wildcard characters.

Note : *In case of any difficulty/doubt/query, you can take the help. Feel free to contact me, S.R.Tandle.*