1. Palindrome Checker
2. Fibonacci Sequence Generator
3. Prime Number Finder
4. Factorial of a Number
5. Reverse an Array
6. Anagram Checker
7. Find Missing Number
8. Count Vowels and Consonants
9. Armstrong Number Checker
10. Sum of Digits
11. String Reversal Without Built-in Functions
12. Find Largest Element in an Array
13. Find Smallest Element in an Array
14. Print Fibonacci Series Using Recursion
15. GCD of Two Numbers
16. LCM of Two Numbers
17. Number Pyramid Pattern
18. Count the Occurrence of a Character in a String
19. Binary to Decimal Conversion
20. Decimal to Binary Conversion
21. Print Prime Numbers Using Sieve of Eratosthenes
22. Sum of Digits of a Number Using Recursion
23. Check if a Number is Perfect
24. Check if a Number is Abundant
25. Check if a Number is Deficient
26. Sort an Array Using Bubble Sort
27. Sort an Array Using Selection Sort
28. Sort an Array Using Insertion Sort
29. Merge Two Arrays
30. Rotate an Array to the Right
31. Rotate an Array to the Left
32. Find Missing Number in an Array of 1 to N
33. Swap Two Numbers Without a Temporary Variable
34. Calculate Power of a Number Using Recursion
35. Reverse a Linked List
36. Print All Substrings of a String
37. Reverse Words in a Sentence
38. Longest Palindromic Substring
39. Find the First Non-Repeating Character
40. Remove Duplicates from an Array
41. Find the Union of Two Arrays
42. Find the Intersection of Two Arrays
43. Find the Duplicate Number in an Array
44. Check if a String Contains Only Digits
45. Remove All Whitespaces from a String
46. Convert a String to Uppercase and Lowercase
47. Count the Number of Words in a String
48. Find the Longest Word in a String

49. Print Multiplication Table of a Number
50. Check if a Number is a Narcissistic Number
51. Generate All Permutations of a String
52. Reverse an Integer
53. Reverse an Array Using Recursion
54. Remove Character from String
55. Convert an Array to a String
56. Count the Number of 1's in a Binary Number
57. Check if a String is a Substring of Another
58. Check if a String is a Valid Email Address
59. Check if a String is a Valid Phone Number
60. Find All Prime Numbers Less Than a Given Number
61. Print the Pascal's Triangle
62. Find the Missing Number in a Sequence of N Numbers
63. Calculate the Sum of an Arithmetic Series
64. Print all Factors of a Number
65. Check if a String is a Valid Anagram of Another
66. Remove All Even Numbers from an Array
67. Sum of Diagonal Elements in a Matrix
68. Transpose a Matrix
69. Print Matrix in Spiral Order
70. Rotate a Matrix by 90 Degrees
71. Count Set Bits in a Number
72. Sum of the Digits of a Number Using Recursion
73. Find the Sum of the First N Fibonacci Numbers
74. Find the Largest Sum of Consecutive Subarray
75. Find the Sum of the Elements of a Matrix
76. Find the Product of Two Matrices
77. Sum of Prime Numbers in a Range
78. Fibonacci Series Using Memoization
79. Fibonacci Series Using Dynamic Programming
80. Reverse an Array Using Stack
81. Print the Binary Representation of a Number
82. Check if a Number is a Palindrome Using Recursion
83. Find the Second Largest Element in an Array
84. Check if a String is a Valid URL
85. Find the Length of the Longest Substring Without Repeating Characters
86. Convert Roman Numerals to Integer
87. Find the Mode of an Array
88. Find the Median of an Array
89. Find the Mode of a String
90. Implement a Queue Using Two Stacks
91. Find the Square Root of a Number
92. Check if a String is a Valid IP Address
93. Find the Common Characters in Two Strings
94. Count Words in a Sentence
95. Find the Smallest Subarray with a Given Sum
96. Remove Duplicates from a Sorted Array

97. Find the Majority Element in an Array
98. Check if a Number is a Power of Two
99. Implement a Stack Using Linked List
100. Find the Peak Element in an Array
101. Print All Anagrams of a String
102. Find Maximum Consecutive 1's in Binary Representation
103. Sum of Natural Numbers Using Recursion
104. Count the Number of Digits in a Number
105. Remove All Occurrences of a Character in a String
106. Find the Longest Prefix in an Array of Strings
107. Find the Longest Palindromic Prefix in a String
108. Print a Diamond Shape Using Numbers
109. Convert Integer to Roman Numeral
110. Print All Permutations of a Number
111. Find the Number of Distinct Elements in an Array
112. Find the Subarray with the Maximum Sum
113. Implement Depth-First Search in a Graph
114. Implement Breadth-First Search in a Graph
115. Find the Shortest Path in a Graph
116. Check if a Graph is a Tree
117. Implement a HashMap
118. Implement a Linked List
119. Reverse Words in a String Without Changing Their Order
120. Find the Length of a Linked List
121. Swap Two Elements in an Array
122. Check if a Linked List is Palindrome
123. Merge Two Sorted Lists
124. Implement Insertion Sort
125. Implement Quick Sort
126. Implement Merge Sort
127. Implement Heap Sort
128. Find the Kth Smallest Element in an Array
129. Find the Kth Largest Element in an Array
130. Merge Overlapping Intervals
131. Find the Subarray with a Given Sum
132. Find Missing and Repeating Numbers in an Array
133. Find the Sum of All Elements in a Binary Tree
134. Check if a Binary Tree is Balanced
135. Print All Nodes at a Given Level in a Binary Tree
136. Find the Depth of a Binary Tree
137. Find the Height of a Binary Tree
138. Check if a Binary Tree is a Binary Search Tree
139. Find the Diameter of a Binary Tree
140. Find the Lowest Common Ancestor in a Binary Search Tree
141. Count the Number of Nodes in a Binary Tree
142. Convert a Binary Tree to a Doubly Linked List
143. Level Order Traversal of a Binary Tree
144. Reverse Level Order Traversal of a Binary Tree

145. Print All Leaf Nodes in a Binary Tree
146. Find the Maximum Path Sum in a Binary Tree
147. Find the Vertical Sum in a Binary Tree
148. Construct a Binary Tree from Inorder and Preorder Traversals
149. Construct a Binary Tree from Inorder and Postorder Traversals
150. Serialize and Deserialize a Binary Tree
151. Flatten a Binary Tree
152. Find the Diameter of a Binary Tree
153. Find the Width of a Binary Tree
154. Find All Paths from Root to Leaf in a Binary Tree
155. Inorder Traversal of a Binary Tree
156. Preorder Traversal of a Binary Tree
157. Postorder Traversal of a Binary Tree
158. Check if a Linked List is Circular
159. Reverse a Linked List in Groups of K
160. Find the Intersection Point of Two Linked Lists
161. Find the Middle Element of a Linked List
162. Delete a Node in a Linked List
163. Detect a Cycle in a Linked List
164. Sort a Linked List
165. Find the Nth Node from the End of a Linked List
166. Merge Two Sorted Linked Lists
167. Find the Intersection of Two Linked Lists
168. Create a Singly Linked List
169. Find the Length of a Linked List
170. Implement Binary Search on a Sorted Array
171. Find the Number of Occurrences of an Element in a Sorted Array
172. Check if a String is a Rotation of Another String
173. Implement a Priority Queue
174. Implement an ArrayList
175. Remove All Even Numbers from an Array
176. Reverse an Array Using Two Pointers
177. Find the Missing Element in an Array
178. Find the Factorial Using Dynamic Programming
179. Count the Number of Occurrences of Each Character in a String
180. Check if Two Strings are Equal After Removing Spaces
181. Count the Number of Unique Characters in a String
182. Find the Sum of Odd Numbers in an Array
183. Print All Pairs in an Array that Sum to a Target Value
184. Find the GCD of a List of Numbers
185. Find the LCM of a List of Numbers
186. Find the Mode in an Array of Numbers
187. Count the Number of Occurrences of Each Element in an Array
188. Find the Average of Numbers in an Array
189. Implement Depth-First Search on a Graph
190. Implement Breadth-First Search on a Graph
191. Find the Degree of a Graph
192. Find the Shortest Path in a Weighted Graph

193. Find the Longest Path in a Graph
194. Implement Dijkstra's Algorithm
195. Implement Bellman-Ford Algorithm
196. Check if a Graph is Bipartite
197. Detect a Cycle in a Graph
198. Implement Prim's Algorithm
199. Implement Kruskal's Algorithm
200. Find the Strongly Connected Components in a Graph