**Beginner Level:**

1. Find the maximum element in an array
2. Find the minimum element in an array
3. Calculate the sum of all elements in an array
4. Calculate the average of all elements in an array
5. Reverse an array
6. Find the frequency of each element in an array
7. Find the second largest element in an array
8. Find the second smallest element in an array
9. Check if an array is sorted
10. Merge two sorted arrays
11. Rotate an array to the left by one position
12. Rotate an array to the right by one position
13. Move all zeros to the end of an array
14. Remove duplicates from a sorted array
15. Find the missing number in a sequence (1 to n)
16. Find the largest sum contiguous subarray (Kadane's Algorithm)
17. Find the intersection of two arrays
18. Find the union of two arrays
19. Find the pair with a given sum in an array
20. Implement binary search on a sorted array

**Medium Level:**

1. Find the majority element in an array
2. Find the element that appears once in an array (all other elements appear twice)
3. Find the first repeating element in an array
4. Find the first non-repeating element in an array
5. Find the subarray with a given sum
6. Find the longest increasing subsequence in an array
7. Find the maximum product subarray
8. Find the longest consecutive subsequence
9. Implement the merge sort algorithm
10. Implement the quicksort algorithm
11. Find the median of two sorted arrays
12. Find the common elements in three sorted arrays
13. Rearrange the array in alternating positive and negative items
14. Find the number of inversions in an array
15. Find the equilibrium index of an array
16. Find the subarray with the maximum sum of products
17. Find the smallest subarray with a sum greater than a given value
18. Find the longest subarray with an equal number of 0s and 1s
19. Find the minimum number of swaps required to sort the array
20. Find the kth smallest element in an array

**Advanced Level:**

1. Implement the heap sort algorithm
2. Find the median of a stream of integers
3. Find the smallest range that includes at least one element from each of the given k lists
4. Find the maximum of all subarrays of size k
5. Implement the counting sort algorithm
6. Implement the radix sort algorithm
7. Find the smallest missing positive integer
8. Find the minimum length subarray with sum equal to k
9. Implement the bucket sort algorithm
10. Find the minimum number of platforms required for a railway station