

FAANG ARRAY PROBLEM MASTER LIST (160+ Problems)

Websites to Practice: LeetCode, GeeksForGeeks, InterviewBit, HackerRank, CodeStudio, NeetCode, AlgoMonster.

SECTION 1 — Sliding Window (Most on LeetCode, GFG)

1. Max Sum Subarray of size K
2. First Negative number in every window of size K
3. Count of anagram occurrences
4. Maximum average subarray
5. Subarrays of size K with sum $> X$
6. Longest substring without repeating characters
7. Longest subarray with sum K
8. Subarray sum equal K
9. Minimum window substring
10. Longest substring with at most K distinct characters
11. Smallest substring with all characters
12. Subarrays with product $< K$
13. Fruits into baskets
14. Longest repeating character replacement
15. Count nice subarrays
16. Sliding window maximum
17. Sum divisible by K
18. Exactly K odd numbers
19. Binary subarrays with sum
20. At most K distinct chars

SECTION 2 — Two Pointer (LeetCode, InterviewBit)

21. Two Sum sorted
22. Three Sum
23. Four Sum
24. Move zeros
25. Remove duplicates sorted array
26. Remove duplicates (allow 2)

- 27. Container with most water
- 28. Sort colors
- 29. Partition array
- 30. Compare versions
- 31. Merge sorted array
- 32. Intersection of arrays (I, II)
- 33. Minimum diff pair
- 34. Reverse words array
- 35. Max consecutive ones III
- 36. K list smallest range
- 37. Shortest unsorted subarray
- 38. Backspace compare
- 39. Boats to save people

SECTION 3 — Prefix Sum & Kadane (LeetCode, GFG)

- 41. Subarray sum K
- 42. Subarray divisible by K
- 43. Product except self
- 44. Trapping rainwater
- 45. Kadane
- 46. Max circular subarray
- 47. Running sum
- 48. Pivot index
- 49. Range sum 2D
- 50. Min size subarray
- 51. XOR subarray count
- 52. Odd length subarrays
- 53. Jump game
- 54. Jump game II
- 55. Candy
- 56. Gas station
- 57. Buy sell stock I

58. Buy sell cooldown

59. Buy sell fee

60. Majority element

SECTION 4 — Binary Search on Arrays (LeetCode)

61. Binary search

62. Search insert

63. First & last index

64. Peak element

65. Min rotated array

66. Search rotated array

67. K closest

68. Find duplicate

69. Single element

70. Kth missing number

71. Painter partition

72. Allocate books

73. Aggressive cows

74. Median of 2 sorted arrays

75. Ship capacity

76. Koko bananas

77. Smallest divisor

78. Wood cutting

79. Find in mountain array

80. Split largest sum

SECTION 5 — Hashing (LeetCode, GFG)

81. Two Sum

82. Contains duplicate

83. Nearby duplicate

84. Longest consecutive sequence

85. Top K frequent

86. Group anagrams

- 87. Happy number
- 88. Harmonious subsequence
- 89. Ransom note
- 90. Isomorphic strings
- 91. First unique element
- 92. Unique count
- 93. Word pattern
- 94. Subarray sum multiples
- 95. Window substring
- 96. All anagrams in string
- 97. Reorganize string
- 98. Check permutation
- 99. Longest palindrome created
- 100. Common elements matrix

SECTION 6 — Monotonic Stack (LeetCode)

- 101. Next greater element (I, II)
- 102. Next smaller element
- 103. Histogram largest rectangle
- 104. Max rectangle binary matrix
- 105. Daily temperatures
- 106. Stock span
- 107. Rainwater (stack)
- 108. Remove K digits
- 109. Subarray minimums sum
- 110. Subarray maximums sum
- 111. Max width ramp
- 112. Shortest subarray $\geq K$
- 113. Next greater frequency
- 114. Buildings ocean view
- 115. Validate stack sequences
- 116. Monotonic increase array

- 117. Window max (deque)
- 118. Make array strictly increasing
- 119. Remove adjacent duplicates

SECTION 7 — Greedy / Intervals (LeetCode)

- 121. Merge intervals
- 122. Insert interval
- 123. Non-overlapping intervals
- 124. Min arrows burst balloons
- 125. Meeting rooms I, II
- 126. Partition labels
- 127. Task scheduler
- 128. Reduce array size to half
- 129. Min jumps to reach end
- 130. Min platforms
- 131. Lemonade change
- 132. Consecutive subsequences
- 133. Max chunks sorted
- 134. Divide array into sets of K
- 135. Jump game greedy
- 136. Jump game II greedy
- 137. Covered intervals removal
- 138. Assign cookies
- 139. Minimize max pair sum

SECTION 8 — Matrix (2D Arrays) (LeetCode, GFG)

- 141. Spiral matrix
- 142. Rotate image
- 143. Search matrix (I, II)
- 144. Set matrix zero
- 145. Num islands
- 146. Max island area
- 147. Flood fill

- 148. Surrounded regions
- 149. Word search
- 150. Rotate matrix 180°
- 151. Transpose matrix
- 152. Diagonal traversal
- 153. Count submatrices with ones
- 154. Largest square of 1s
- 155. Unique paths
- 156. Minimum path sum
- 157. Island perimeter
- 158. Shortest path binary matrix
- 159. Game of life