

Python List Problems: Fundamentals to Advanced

Fundamentals

1. Sum of All Elements
2. Product of All Elements
3. Remove All Occurrences of a Specific Element
4. Find the Largest and Smallest Elements
5. Count Odd and Even Numbers
6. Find Unique Elements in a List
7. Find the Most Frequent Element
8. Merge Two Lists Alternatingly
9. Shift Elements Left by N Positions
10. Check for Consecutive Numbers
11. Replace Even Numbers with Zero
12. Cumulative Sum of Elements
13. Interleave Two Lists
14. Find Pairs with a Specific Difference
15. Group Elements by Parity
16. Split a List into Chunks of Size N
17. Find the Longest Increasing Subsequence
18. Remove Duplicates Without Using Sets
19. Find the Second Smallest Element
20. Rotate Elements Right by N Positions
21. Reverse the Elements in a List
22. Find All Elements Greater Than N
23. Check if a List is Palindromic
24. Multiply Corresponding Elements of Two Lists

25. Count the Number of Vowels in a List of Strings

Intermediate

26. Flatten a Nested List

27. Find the Intersection of Two Lists

28. Find All Pairs That Sum to a Specific Target

29. Calculate Factorials of Numbers in a List

30. Find the Top K Largest Elements

31. Convert List of Strings to Integers

32. Sort a List of Dictionaries by a Key

33. Find the Union of Two Lists Without Duplicates

34. Remove the Nth Element from the List

35. Rotate a List Until it is Sorted

36. Find All Permutations of a List

37. Count the Frequency of Each Element

38. Replace Negative Numbers with Absolute Values

39. Find the Smallest Missing Positive Integer

40. Filter Out Prime Numbers from a List

41. Find All Subarrays with a Given Sum

42. Sort a List Using Bubble Sort

43. Replace Sublist with Another List

44. Extract Digits from List of Mixed Data Types

45. Create a Matrix from a List

46. Calculate Moving Average of a List

47. Group Elements by Length of String

48. Calculate Median of a List

49. Remove Outliers from a List

50. Find Longest Substring Without Repeating Characters in a List of Strings