

## Python Programming Questions – LIST

### Basic Level

1. Write a Python program to create a list of integers and print its elements.
  2. Write a program to find the **sum and average** of all elements in a list.
  3. Write a program to find the **largest and smallest** element in a list.
  4. Write a Python program to **count the number of elements** in a list without using len().
  5. Write a program to **reverse a list** without using built-in functions.
  6. Write a program to **check if an element exists** in a list.
  7. Write a Python program to **remove duplicate elements** from a list.
  8. Write a program to **sort a list** in ascending and descending order.
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### Intermediate Level

9. Write a program to **merge two lists** and remove duplicates.
  10. Write a program to **find common elements** between two lists.
  11. Write a program to **split a list into even and odd numbers**.
  12. Write a program to **rotate a list** by n positions.
  13. Write a Python program to **find the second largest number** in a list.
  14. Write a program to **flatten a nested list**.
  15. Write a program to **count frequency of each element** in a list.
  16. Write a program to **replace all negative numbers with zero** in a list.
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### Advanced Level

17. Write a program to **remove all occurrences of a given element** from a list.
  18. Write a program to **check if a list is a palindrome**.
  19. Write a Python program to **find missing numbers** in a given list of consecutive integers.
  20. Write a program to **perform element-wise addition of two lists**.
  21. Write a Python program to **find the longest increasing subsequence** in a list.
  22. Write a program to **group elements based on frequency**.
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## Python Programming Questions – TUPLE

### Basic Level

23. Write a Python program to **create a tuple and print its elements**.
  24. Write a program to **find the length of a tuple**.
  25. Write a program to **find the maximum and minimum** element in a tuple.
  26. Write a program to **convert a tuple into a list**.
  27. Write a program to **check if an element exists** in a tuple.
  28. Write a program to **count occurrences of an element** in a tuple.
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### Intermediate Level

29. Write a program to **slice a tuple** and display the result.
  30. Write a program to **find repeated elements** in a tuple.
  31. Write a program to **merge two tuples**.
  32. Write a program to **unpack elements of a tuple into variables**.
  33. Write a Python program to **sort a tuple**.
  34. Write a program to **convert a list of tuples into a dictionary**.
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### Advanced Level

35. Write a program to **find the index of an element** in a tuple.
36. Write a program to **remove an element from a tuple** (without directly modifying it).
37. Write a program to **find common elements between two tuples**.
38. Write a Python program to **check if a tuple is a palindrome**.
39. Write a program to **find the element with maximum frequency** in a tuple.
40. Write a program to **create a nested tuple and access its elements**.