

## Lists

1. **Question:**

Write a Python program to find all pairs of numbers in the list [2, 4, 3, 5, 7, 8, 9] whose sum is equal to 10.

2. **Question:**

Given a list of integers, write a Python program to find the second largest unique number in the list.

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## Tuples

3. **Question:**

Create a tuple with 10 integers. Write a Python program to find the index of the first occurrence of the maximum element in the tuple.

4. **Question:**

Write a Python program to merge two tuples into a dictionary where the first tuple contains keys and the second tuple contains values.

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## Sets

5. **Question:**

Write a Python program to check if two sets are disjoint (have no elements in common) without using the `isdisjoint()` method.

6. **Question:**

Given a set {10, 20, 30, 40, 50}, write a Python program to generate all possible subsets of the set.

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## Dictionaries

7. **Question:**

Write a Python program to sort a dictionary by its values in descending order.

8. **Question:**

Given a dictionary `words = {"a": 2, "b": 3, "c": 1, "d": 3}`, write a Python program to group the keys by their values (e.g., keys with the same value should be grouped together).

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## Loops

**9. Question:**

Write a Python program to print the first  $n$  prime numbers using a loop.

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## Functions

**10. Question:**

Write a recursive Python function to find the nth Fibonacci number