Call By Reference

1. The Fibonacci Series is the series where the next term is the sum of the previous two terms. For Example: 0, 1, 1, 2, 3, 5, 5, , n
   Write a program to print the Fibonacci series using call by reference.
   N.B. The output will be written in the main function

2. Rahul loves to play with numbers; he challenges his friend Ankush with a number- related problem in which he has to reverse the order of two digits and then swap them. Let us take the two digits as **a** and **b.**
   Complete the functions **reverse_dig()** and **swap()** with arguments as a and b references. Don't return anything to the function.

3. Create a C++ program that maintains employee records as arrays. Write a function that accepts an array of employee records and updates their salaries based on a given percentage increase.

4. In a retail store inventory system, implement a program using arrays that take the current stock quantity of products and update it after a customer purchases a certain quantity.

5. Build a C++ program to manage bank accounts using arrays. Write a function that accepts an array of account balances and updates the account balance after a withdrawal or deposit operation.

6. Create a program using arrays to calculate students' final grades. Implement a function that takes an array of test scores and calculates the average score.

7. Develop a temperature conversion program using arrays. Write a function that accepts an array of temperatures in Celsius and converts them to Fahrenheit.

8. Create a program using arrays to manipulate vectors of integers. Implement a function that takes an array of integers and squares each element in the array.

9. Build a library inventory management system using arrays. Write a function that accepts an array of book records and updates the number of copies available after a book is borrowed.

10. Design an online shopping cart program using arrays. Implement a function that takes an array of product prices and applies a discount based on a given percentage.

11. Create a program to track car maintenance using arrays. Write a function that accepts an array of car mileages and updates them after a service is performed.

12. Develop a customer loyalty points system using arrays. Implement a function that takes an array of customer points balance and updates them based on their recent purchase amounts and bonus points.