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| **Problem Statement Title** | Coin Tracker |
| **C programming Concept** | 1 D Array |
| **Additional Programming Concepts** | Searching |

**Introduction:**

Imagine you have a collection of coins, each with a different value or Unique Value, and they are arranged ascending order. Now, you receive a new coin, and your task is to find its position in the collection. If the new coin exists in the collection, return the index. If not , return the index where it should be inserted. Write a program for this functionality.

**Function Details:**

* Function name: fndcoin
* Arguments/input: Integer(Input 1), Integer(Input 2)
  + Input 1 : Unique sorted array.
  + Input 2: New coin (Target value)
* Return value/Output: Integer
  + Scenario 1: Return -1 , if array not sorted or array having duplicate number Or
  + Scenario 2: Return the index if its already exist or
  + Scenario 3: Return the index where the new coin to be inserted, if not found.

**Example 1:**

* Input 1 = { 2, 4, 6, 8}
* Input 2 = 4
* Output : 1, The Target value found at the index one. Hence output is 1.

**Example 2:**

* Input 1 = { 2, 4, 6, 8}
* Input 2 = 5
* Output : 2, The Target value is not found at the index. But the right place is index 2 to maintain ascending order. Hence output is 2.

**Example 3:**

* Input 1 = { 2, 6, 6, 8}
* Input 2 = 6
* Output : -1, Sorted array has duplicate number ( The num 6 is in index 1 and index 2).Hence output is -1.