**Given a sorted array of integers, return the index of the target value if it exists in the array. If it does not exist, return the index where it would be if it were inserted in order. The array does not contain duplicate values.**

**Solution:**

Code attached in .c file.

**Explanation:**

**Binary Search Function**:

* The binarySearch function performs a binary search to find the target value in the sorted array.
* If the target is found, it returns the index.
* If the target is not found, it returns the index where the target can be inserted to maintain the sorted order.

 **Print Result Function**:

* The printResult function calls the binarySearch function and prints the result.
* It checks if the target value was found and prints the appropriate message.

Rest is the main function!!