

35.Search Insert Position

```
#include <stdio.h>

/* Function to find search insert position */

int searchInsert(int nums[], int n, int target) {

    int left = 0, right = n - 1, mid;

    while (left <= right) {

        mid = (left + right) / 2;

        if (nums[mid] == target)
            return mid;
        else if (nums[mid] < target)
            left = mid + 1;
        else
            right = mid - 1;
    }

    /* left is the insertion position */
    return left;
}

int main() {
    int nums[100], n, target, i;

    printf("Enter number of elements: ");
    scanf("%d", &n);

    printf("Enter sorted array elements:\n");
    for (i = 0; i < n; i++) {
        scanf("%d", &nums[i]);
    }
}
```

```

    }

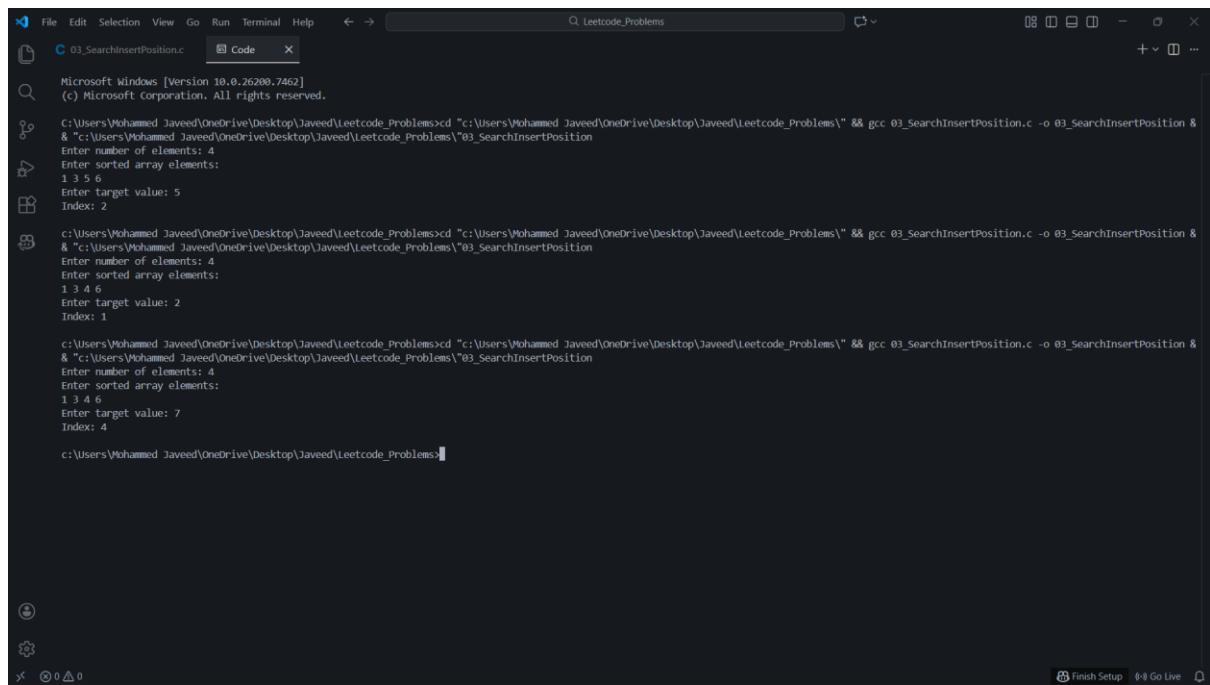
printf("Enter target value: ");
scanf("%d", &target);

printf("Index: %d\n", searchInsert(nums, n, target));

return 0;
}

```

OUTPUT:



```

C:\Users\Mohammed Javeed\OneDrive\Desktop\Javeed\Leetcode_Problems>cd "c:\Users\Mohammed Javeed\OneDrive\Desktop\Javeed\Leetcode_Problems\" && gcc 03_SearchInsertPosition.c -o 03_SearchInsertPosition & "c:\Users\Mohammed Javeed\OneDrive\Desktop\Javeed\Leetcode_Problems\"03_SearchInsertPosition
Enter number of elements: 4
Enter sorted array elements:
1 3 5 6
Enter target value: 5
Index: 2

c:\Users\Mohammed Javeed\OneDrive\Desktop\Javeed\Leetcode_Problems>cd "c:\Users\Mohammed Javeed\OneDrive\Desktop\Javeed\Leetcode_Problems\" && gcc 03_SearchInsertPosition.c -o 03_SearchInsertPosition & "c:\Users\Mohammed Javeed\OneDrive\Desktop\Javeed\Leetcode_Problems\"03_SearchInsertPosition
Enter number of elements: 4
Enter sorted array elements:
1 3 4 6
Enter target value: 2
Index: 1

c:\Users\Mohammed Javeed\OneDrive\Desktop\Javeed\Leetcode_Problems>cd "c:\Users\Mohammed Javeed\OneDrive\Desktop\Javeed\Leetcode_Problems\" && gcc 03_SearchInsertPosition.c -o 03_SearchInsertPosition & "c:\Users\Mohammed Javeed\OneDrive\Desktop\Javeed\Leetcode_Problems\"03_SearchInsertPosition
Enter number of elements: 4
Enter sorted array elements:
1 3 4 6
Enter target value: 7
Index: 4

c:\Users\Mohammed Javeed\OneDrive\Desktop\Javeed\Leetcode_Problems>

```