

73. Insertion sort

Code:

```
def insertion_sort(arr):  
    n = len(arr)  
    for i in range(1, n):  
        key = arr[i]  
        j = i - 1  
        while j >= 0 and key < arr[j]:  
            arr[j + 1] = arr[j]  
            j -= 1  
        arr[j + 1] = key  
arr = [64, 25, 12, 22, 11]  
insertion_sort(arr)  
print("Sorted array:", arr)
```

Output:

```
Sorted array: [11, 12, 22, 25, 64]
```

Time Complexity:

- $T(n) = O(n^2)$