**INSERTION SORT**

***PROGRAM***

main.c

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```c
#include <stdio.h>

void insertionSort(int arr[], int n) {
    for (int i = 1; i < n; i++) {
        int key = arr[i];
        int j = i - 1;
        while (j >= 0 && arr[j] > key) {
            arr[j + 1] = arr[j];
            j--;
        }
        arr[j + 1] = key;
}
void printArray(int arr[], int n) {
    for (int i = 0; i < n; i++)
        printf("%d ", arr[i]);
    printf("\n");
}
int main() {
    int arr[] = {9, 5, 1, 4, 3};
    int n = sizeof(arr) / sizeof(arr[0]);
    printf("Original array:\n");
    printArray(arr, n);
    insertionSort(arr, n);
    printf("Sorted array:\n");
    printArray(arr, n);
    return 0;
}

```

***OUTPUT***

Output Clec

```
Original array:
9 5 1 4 3
Sorted array:
1 3 4 5 9


=== Code Execution Successful ===
```