**Insertion Sort**

#include<stdio.h>

void insertionSort(int arr[], int n){

int i, key, j;

for(i = 0; i < n; i++){

key = arr[i];

j = i - 1;

while(j >= 0 && arr[j] > key){

arr[j + 1] = arr[j];

j = j - 1;

}

arr[j+1] = key;

}

}

void printArray(int arr[], int size){

for(int i = 0; i < size; i++){

printf(" %d",arr[i]);

}

}

void main(){

int arr[] = {72, 45, 78, 97, 80};

int n = sizeof(arr)/sizeof(arr[0]);

insertionSort(arr, n);

printf("Sorted Array: (Using Insertion Sort)\n");

printArray(arr, n);

}

