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#include <stdio.h>

void swap(int *a, int *b){
    int t = *a;
    *a = *b;
    *b = t;
}

void print(int *arr, int n, int i) {
    for(int i = 0; i < n-1; i++)
        printf("%d ",arr[i]);
    printf("%d", arr[n-1]); // No trailing spaces
    if(i != n-1)
        printf("\n"); // No trailing newlines!
}

void insertionSort(int *arr, int n){
    for(int i = 0; i < n; i++){
        for(int j = i - 1; j >= 0; j--){
            if (arr[j+1] < arr[j])
                swap(arr + j + 1, arr + j);
        }
        print(arr, n, i);
    }
}

int main(){
    int n;
    scanf("%d", &n);
    int arr[n];
    for(int i = 0; i < n; i++)
        scanf("%d", &arr[i]);
    insertionSort(arr, n);
}
```