// Online C++ compiler to run C++ program online

#include <iostream>

using namespace std;

void swap(int &a, int &b){

int temp = a;

a = b;

b = temp;

}

void selectionsort(int A[], int size){

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

int min = i;

for(int j = i+1 ; j < size; j++){

if(A[j] < A[min]){

min = j;

}

}

swap(A[i], A[min]);

}

}

void insertionsort(int A[], int size){

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

int min = i;

for(int j = i+1; j < size; j++){

if(A[j] > A[min]){

min = j;

}

}

swap(A[i], A[min]);

}

}

void bubblesort(int A[], int size){

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

for(int j = 1; j < size - i; j++){

if(A[j-1] > A[j]){

swap(A[j], A[j-1]);

}

}

}

}

void print(int A[], int size){

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

{

cout << A[i] << " ";

}

}

int main() {

// Write C++ code here

int arr[6] = {13, 52, 6, 9, 10, 8};

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

print(arr, size);

cout << endl;

insertionsort(arr,size);

//bubblesort(arr,size);

//selectionsort(arr, size);

print(arr, size);

return 0;

}