#include <iostream>

using namespace std;

// Function template for selection sort

template <typename T>

void selectionSort(T arr[], int size) {

for (int i = 0; i < size - 1; i++) {

int minIndex = i;

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

if (arr[j] < arr[minIndex]) {

minIndex = j;

}

}

// Swap the found minimum element with the first element

T temp = arr[minIndex];

arr[minIndex] = arr[i];

arr[i] = temp;

}

}

// Function to input array elements

template <typename T>

void inputArray(T arr[], int size) {

cout << "Enter " << size << " elements:" << endl;

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

cin >> arr[i];

}

}

// Function to output array elements

template <typename T>

void outputArray(T arr[], int size) {

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

cout << arr[i] << " ";

}

cout << endl;

}

int main() {

const int size = 5;

// Integer array

int intArray[size];

cout << "Integer Array:" << endl;

inputArray(intArray, size);

selectionSort(intArray, size);

cout << "Sorted Integer Array: ";

outputArray(intArray, size);

// Float array

float floatArray[size];

cout << "Float Array:" << endl;

inputArray(floatArray, size);

selectionSort(floatArray, size);

cout << "Sorted Float Array: ";

outputArray(floatArray, size);

return 0;

}