#include <iostream>

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;

}

}

if (minIndex != i) {

std::swap(arr[i], arr[minIndex]);

}

}

}

int main() {

int intArray[] = {5, 2, 9, 3, 4};

float floatArray[] = {3.14, 2.71, 1.618, 2.0, 0.5};

int intSize = sizeof(intArray) / sizeof(intArray[0]);

int floatSize = sizeof(floatArray) / sizeof(floatArray[0]);

// Sort integer array

selectionSort(intArray, intSize);

std::cout << "Sorted Integer Array: ";

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

std::cout << intArray[i] << " ";

}

std::cout << std::endl;

// Sort float array

selectionSort(floatArray, floatSize);

std::cout << "Sorted Float Array: ";

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

std::cout << floatArray[i] << " ";

}

std::cout << std::endl;

return 0;

}

