public class SelectionSort {

public static void selectionSort(int[] arr) {

int n = arr.length;

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

int minIndex = i;

// Find the index of the minimum element in the remaining unsorted array

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

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

minIndex = j;

}

}

// Swap the found minimum element with the first element

int temp = arr[minIndex];

arr[minIndex] = arr[i];

arr[i] = temp;

}

}

public static void main(String[] args) {

int[] arr = {64, 25, 12, 22, 11};

System.out.println("Original array:");

printArray(arr);

selectionSort(arr);

System.out.println("Sorted array:");

printArray(arr);

}

public static void printArray(int[] arr) {

for (int i : arr) {

System.out.print(i + " ");

}

System.out.println();

}

}