#include <stdio.h>

// Function to perform Selection Sort on an array

void selectionSort(int arr[], int n) {

int i, j, min\_idx;

// One by one move the boundary of the unsorted subarray

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

// Find the minimum element in the unsorted array

min\_idx = i;

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

if (arr[j] < arr[min\_idx])

min\_idx = j;

// Swap the found minimum element with the first element

int temp = arr[min\_idx];

arr[min\_idx] = arr[i];

arr[i] = temp;

}

}

// Function to print an array

void printArray(int arr[], int size) {

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

printf("%d ", arr[i]);

printf("\n");

}

int main() {

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

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

printf("Unsorted array: \n");

printArray(arr, n);

// Perform Selection Sort

selectionSort(arr, n);

printf("Sorted array: \n");

printArray(arr, n);

return 0;

}