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// template_selection_sort.cpp
#include <iostream>
using namespace std;

template <typename T>
void selectionSort(T arr[], int n) {
    for (int i = 0; i < n-1; ++i) {
        int minIdx = i;
        for (int j = i+1; j < n; ++j) {
            if (arr[j] < arr[minIdx]) minIdx = j;
        }
        if (minIdx != i) swap(arr[i], arr[minIdx]);
    }
}

template <typename T>
void printArray(T arr[], int n) {
    for (int i = 0; i < n; ++i) cout << arr[i] << " ";
    cout << "\n";
}

int main() {
    int iarr[] = {64, 25, 12, 22, 11};
    int n1 = sizeof(iarr)/sizeof(iarr[0]);
    cout << "Integer array before sort: "; printArray(iarr, n1);
    selectionSort(iarr, n1);
    cout << "After selection sort: "; printArray(iarr, n1);

    float farr[] = {64.5f, 25.1f, 12.2f, 22.9f, 11.0f};
    int n2 = sizeof(farr)/sizeof(farr[0]);
    cout << "Float array before sort: "; printArray(farr, n2);
    selectionSort(farr, n2);
    cout << "After selection sort: "; printArray(farr, n2);

    return 0;
}
```