SELECTION SORT

CODE:

```
#include <bits/stdc++.h>
using namespace std;

// Function for Selection sort
void selectionSort(int arr[], int n)
{
	int i, j, min_idx;

	// One by one move boundary of
	// unsorted subarray
	for (i = 0; i < n - 1; i++) {

		// Find the minimum element in
		// 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
		if (min_idx != i)
			swap(arr[min_idx], arr[i]);
	}
}



int main()
{
```

```
    int n;
    cout<<"Enter size of array: ";
    cin>>n;
    int arr[n];
    for (int i=0; i<n;i++){
    cout<<"Enter element: ";
    cin>>arr[i];
    }
        selectionSort(arr, n);
        cout << "Sorted array: \n";
        int i;
        for (i = 0; i < n; i++) {
                cout << arr[i] << " ";
                cout << endl; }
        return 0;
}
```

OUTPUT: