

## Selection Sort (C++)

```
#include <iostream>
```

```
using namespace std;
```

```
int main() {
```

```
    int n;
```

```
    cout << "Enter number of elements: ";
```

```
    cin >> n;
```

```
    int a[n];
```

```
    cout << "Enter elements:\n";
```

```
    for(int i = 0; i < n; i++)
```

```
        cin >> a[i];
```

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

```
        int minIndex = i;
```

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

```
            if(a[j] < a[minIndex])
```

```
                minIndex = j;
```

```
        }
```

```
        int temp = a[i];
```

```
        a[i] = a[minIndex];
```

```
        a[minIndex] = temp;
```

```
    }
```

```
    cout << "Sorted array:\n";
```

```
    for(int i = 0; i < n; i++)
```

```
        cout << a[i] << " ";
```

```
    return 0;  
}
```

### Output

Enter number of elements:

3

Enter elements:

6 9 5

Sorted array:

5 6 9

=== Code Execution Successful ===