```
#include <iostream>
using namespace std;
void selectionSort(int 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;
     swap(arr[i], arr[minidx]);
}
int main() {
  int arr[] = \{64, 25, 12, 22, 11\};
  int n = sizeof(arr)/sizeof(arr[0]);
  selectionSort(arr, n);
  cout << "Sorted array: \n";</pre>
  for(int i = 0; i < n; i++) {
     cout << arr[i] << " ";
  return 0;
```

Selection in C++

Input:

 $arr[] = \{64, 25, 12, 22, 11\}$

M Selection Sort Dry Run Table

Pass	i	Initial minidx	Comparisons	New minidx	Swap (arr[i] ↔ arr[minidx])	after
1	0	0 (64)	$25 < 64 \rightarrow 12 < 25 \rightarrow 22 < 12 \rightarrow 11 < 12$		64 ↔ 11	[11, 25, 12, 22, 64]
2	1	1 (25)	$12 < 25 \rightarrow 22 < 12$	2 (12)	$25 \leftrightarrow 12$	[11, 12, 25, 22, 64]
3	2	2 (25)	22 < 25	3 (22)	$25 \leftrightarrow 22$	[11, 12, 22, 25, 64]
4	3	3 (25)	64 > 25	13	25 ↔ 25 (no change)	[11, 12, 22, 25, 64]

∜ Final Output:

Sorted array: 11 12 22 25 64

 $11\ 12\ 22\ 25\ 64$