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| **Selection in C++** | |
| #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";  for(int i = 0; i < n; i++) {  cout << arr[i] << " ";  }  return 0;  } | Input: arr[] = {64, 25, 12, 22, 11} 📊 Selection Sort Dry Run Table  | **Pass** | **i** | **Initial minidx** | **Comparisons** | **New minidx** | **Swap (arr[i] ↔ arr[minidx])** | **Array after pass** | | --- | --- | --- | --- | --- | --- | --- | | 1 | 0 | 0 (64) | 25 < 64 → 12 < 25 → 22 < 12 → 11 < 12 | 4 (11) | 64 ↔ 11 | **[11, 25, 12, 22, 64]** | | 2 | 1 | 1 (25) | 12 < 25 → 22 < 12 | 2 (12) | 25 ↔ 12 | **[11, 12, 25, 22, 64]** | | 3 | 2 | 2 (25) | 22 < 25 | 3 (22) | 25 ↔ 22 | **[11, 12, 22, 25, 64]** | | 4 | 3 | 3 (25) | 64 > 25 | 3 | 25 ↔ 25 (no change) | **[11, 12, 22, 25, 64]** |  ✅ Final Output: Sorted array:  11 12 22 25 64 |
| 11 12 22 25 64 | |