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Code:
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#include <bits/stdc++.h>
using namespace std;
void swap(int &a, int &b) {
 int temp;
 temp = a;
 a = b;
 b = temp;
void SelectionSort(int arr[], int n) {
 int i, j, key;
 for (int i = 0; i < n - 1; i++) {
  key = i;
  for (j = i + 1; j < n; j++) {
    if (arr[j] < arr[key]) {
     key = j;
   }
  }
  swap(arr[i], arr[key]);
  cout << "\nArray after pass " << i + 1 << " : ";
  for (int k = 0; k < n; k++) {
    cout << arr[k] << " ";
  }
  cout << endl;
}
void printArray(int arr[], int n) {
 for (int i = 0; i < n; i++)
  cout << arr[i] << " ";
 cout << endl;
int main() {
 int n;
 cout << "Enter the size of array: ";
 cin >> n;
 int arr[n];
 cout << "\nEnter the array elements: ";</pre>
```

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for (int i = 0; i < n; i++) {
  cin >> arr[i];
 SelectionSort(arr, n);
 cout << "\nArray after sorting: " << endl;</pre>
 printArray(arr, n);
 return 0;
}
// Time complexity : O(n2) for all the cases
Sample Output:
Enter the size of array: 6
Enter the array elements: 85 69 32 14 55 102
Array after pass 1: 14 69 32 85 55 102
Array after pass 2: 14 32 69 85 55 102
Array after pass 3: 14 32 55 85 69 102
Array after pass 4: 14 32 55 69 85 102
Array after pass 5 : 14 32 55 69 85 102
Array after sorting:
14 32 55 69 85 102
```