SELECTION SORT

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

OUTPUT:

```
Output

/tmp/vV1N17VrM1.0

Enter size of array: 5

Enter element: 12

Enter element: 43

Enter element: 15

Enter element: 28

Enter element: 67

Sorted array: 12

15

28

43

67
```