Lecture-16

Selection Sort

```
#include <bits/stdc++.h>
void selectionSort(vector<int>& arr, int n)
{
   // Write your code here.
   for(int i=0;i<n;i++){
    int minIndex = i;
    for(int j=i+1;j<n;j++){
    if(arr[j]<arr[minIndex]){
    minIndex = j;
   }
}
swap(arr[minIndex], arr[i]);
}
</pre>
```

Stable and Unstable algorithms-->

https://www.baeldung.com/cs/stable-sortingalgorithms#:~:text=Stable%20sorting%20algorithms%20preserve%20the,elements%20relative%20to%20one%20another.