Let, Array

Algorithm =>

- Find the minmimum value in the list.
- Desap it whe me value in the current position.
- @ Repeat this process for the allesements until the entite amy N footed.

Jength=5

 $Pads-1 \rightarrow 4$ 3 2 56 $\rightarrow min = 2$ $Pads-2 \rightarrow 2$ 3 4 56 $\rightarrow min = 3$ $Pads-3 \rightarrow 2$ 3 4 56 $\rightarrow min = 4$ $PadsA \rightarrow 2$ 3 4 57 $\rightarrow min = 4$ Pall 5-2 3 4 56 + min &

@ Ascending order int amid=44, 2, 3,5765 public vaid insertions on the conding order (intame 1) { int length = arr. length; Good ont i=0; ix length; i++)? Int minInden = 1; foo(in+ j= i+1; j < length; j+1){ > if(arti] < artminindex]) { minInden = j; Sllend of it Ill end of inner for loup int temp = arr [minIndex]; arr[minInder] = arrij; arr[1] = temp. Shend of the outer for loup.

minind = 0 1200 1 D= burning iso, minel JEDUS

Sclection Sort In Descending orders

```
for (snt i=0; s< length; i++)}
    Int monim den = 15.
ber int s'=i+1; j < length; j+2){
   Blanti] > arr[manInden])?
       room In den = j;
   Sliend of of condidion.
  Shend of immor torloop
   int temp = are[monIndex];
  ans[manInden] = ans[i];
  anti] = temp;
Sliend of other for loop
```

Porformance of Selection Sont

- @ worlt case time complementy = 0 (n)
- Best case rime complerity = 0 (ny
- Average case time complexity = O(n2)
- (worlt case space complexity = 0(1) aunillong

Covered topre (28-09-2023)

- O selection Sort Ascending order
- @ Selection Sort Descending order

10 morrow topic (29-09-2023)

- O insertion sont Ascending order
- @insertion Sort Descending order.