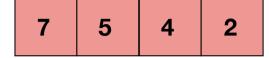
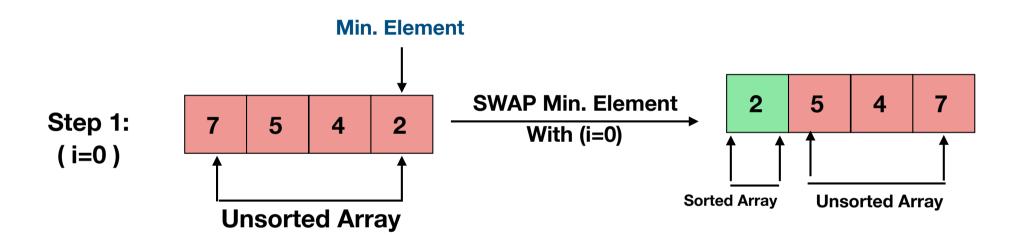
By Prince Agarwal
[ " Hello World " ]

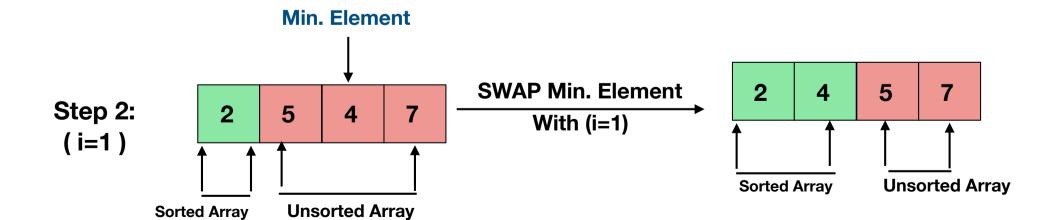
#### **ALGORITHM:-**

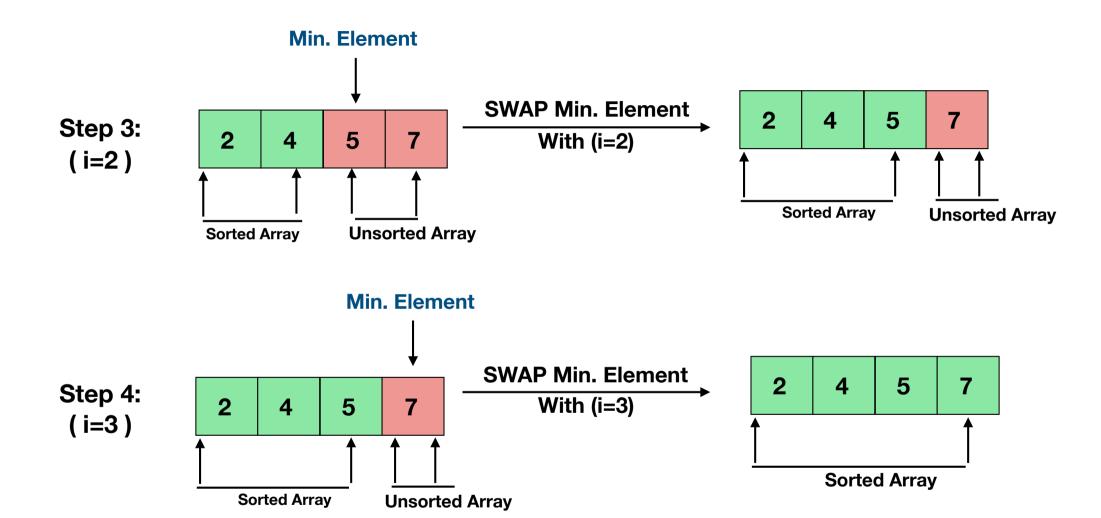
- 1) TAKE THE UNSORTED ARRAY
- 2) FIND THE MINIMUM ELEMENTS FROM THE UNSORTED ARRAY
- 3) AND PUT OR SWAP WITH THE RESPECTIVE ELEMENTS
- 4) UNTIL WE TRAVERSE LAST ELEMENT
- 5) THEN WE GOT SORTED ARRAY

**UNSORTED ARRAY:-**

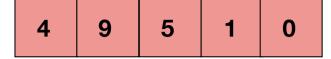


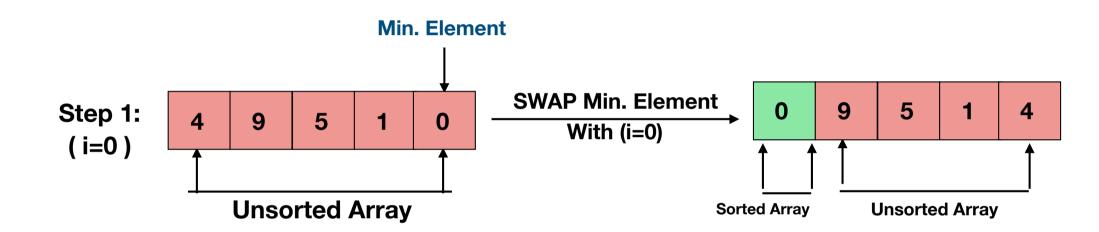


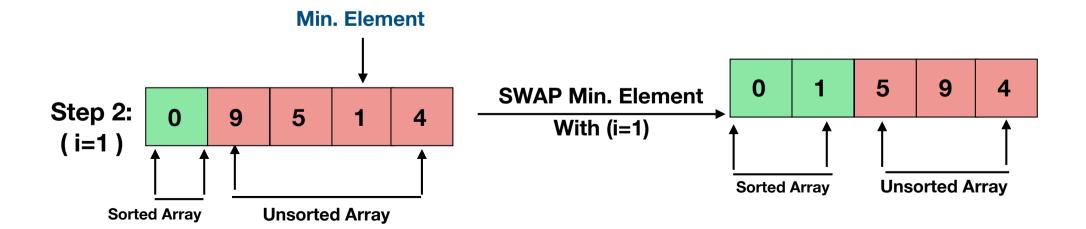


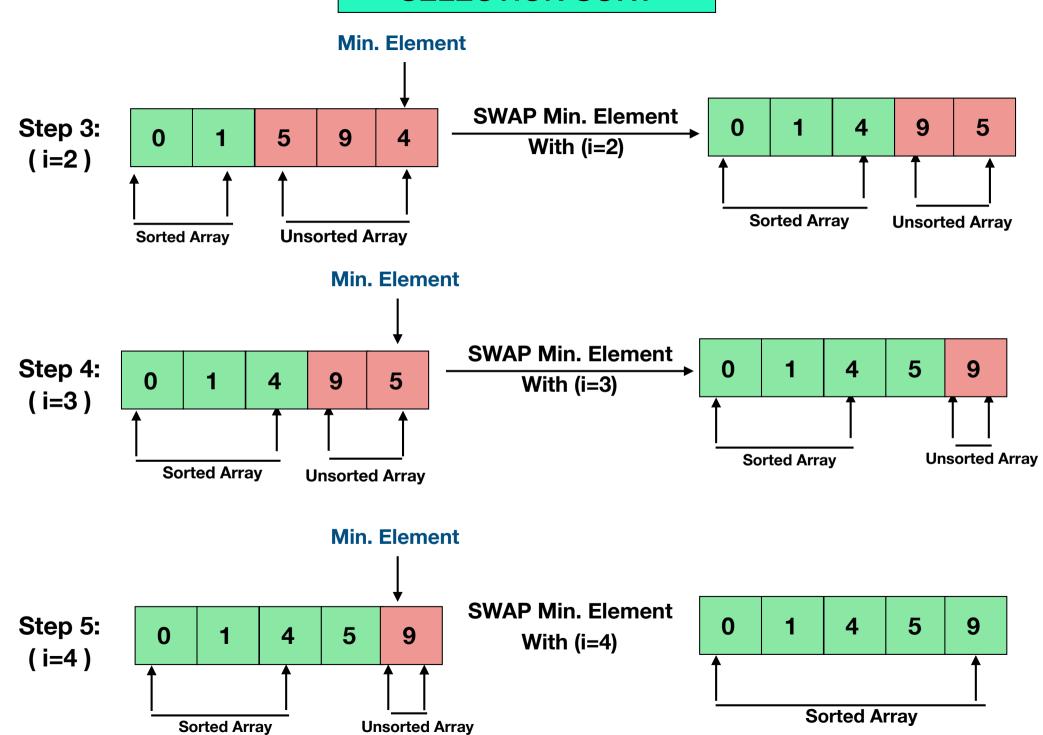


**UNSORTED ARRAY:-**









#### **TIME COMPLEXITY**

1) Time Complexity =  $O(n^2)$ 

To Find the minimum element among N elements N-1 Comparison Required

Now we swap With respective Elements

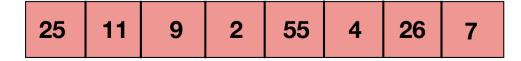
Here, none of time is taken

Now, After swapping the size of unsorted array reduces to N-2, then N-3 and so on

Therefore, Complexity is:-

$$(N-1) + (N-2) + (N-3) + \dots + 1 = [N*(N-1)]/2 = O(N^2)$$

**Home Work Question:-**



**SORT this Array By using SELECTION SORT** 

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### **Hello World**

" If you feel any problem then comments in my video I will reply as soon as possible "

- Prince Agarwal