

Data Structure

Algorithm

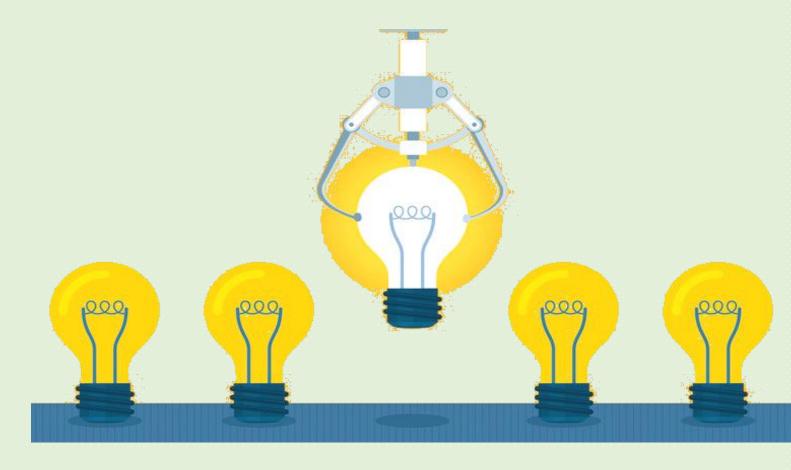
Class X lab 10





Selection Sort

an in-place comparison-based algorithm

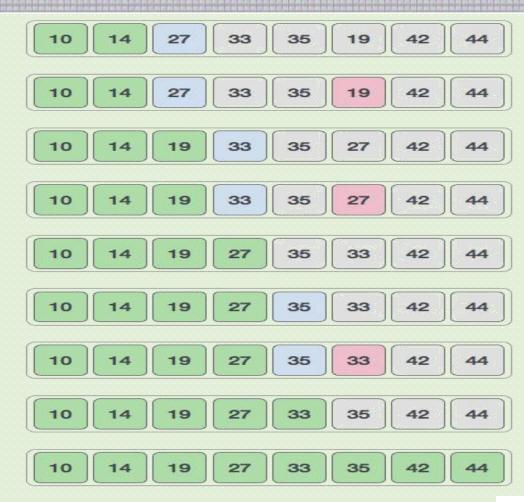






How it Works

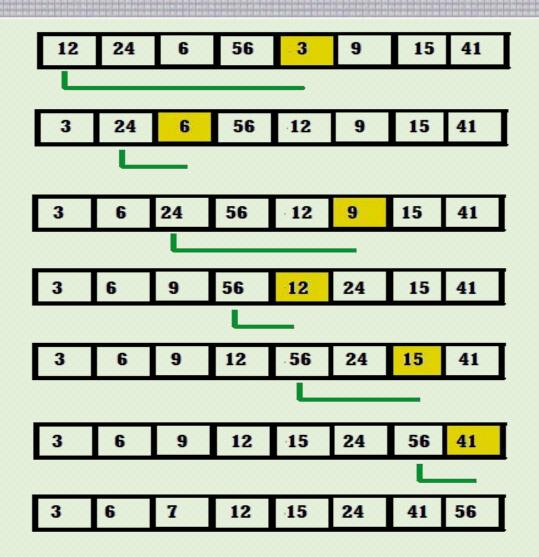
entire sorting process







Example 1







Example 2

Selection Sort. comparisons (n-1) first smallest (n-2) second smallest (n-3) third smallest 0 Sorted List. Total comparisons = n(n - 1)/2Current.





Algorithm

- Step 1 Set MIN to location 0
- Step 2 Search the minimum element in the list
- Step 3 Swap with value at location MIN
- Step 4 Increment MIN to point to next element
- Step 5 Repeat until list is sorted











