

I. Selection Sort

Follow the selection sort algorithm to sort the following unsorted lists:

- A. Unsorted List 1: Convert this list into a sorted list of numbers in ascending order

Unsorted	Sorted
12	
14	
8	
7	
25	
39	
85	
72	
61	
79	
18	



Selection Sort
Work Sheet: 06-ALG-06-WS



B. Unsorted List 2: Convert this list into a sorted list of numbers in ascending order

Unsorted	Sorted
17	
1	
28	
47	
55	
91	
75	
72	
63	
95	
48	

Name:

Class:

Div:

Roll. No:

II. Write the Algorithm

Study the Unsorted and Sorted Lists below, can you suggest a set of instructions (algorithm) to convert the unsorted list into a sorted list?

(Hint: Notice that the sorted list is divided into odd and even numbers)

Unsorted
7
18
28
47
55
91
75
72
66
48

Sorted	
7	8
47	28
55	72
91	66
75	148

Algorithm:



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- III. Suppose every one present in the class puts their pencil and pen in a big box. How can you sort the pencils? How can you sort the pens? (Write some specific property like length of pencil, at least 2 properties).

Properties to sort pencils:

Properties to sort pens:

- IV. Can you write the steps (algorithm) for sorting of the pencils and pens using one property each as answered above?

Algorithm for sorting pencil:

Algorithm for sorting pen: