

LAPORAN PRAKTIKUM SORTING



Disusun Oleh:

Wahyu Ikbil Maulana
(3323600002)
Sains Data Terapan B

POLITEKNIK ELEKTRONIKA NEGERI SURABAYA
DEPARTEMEN TEKNIK INFORMATIKA DAN KOMPUTER

1. Insertion Sort

Input : list number

Process : It finds the first smallest element (2), It swaps it with the first element of the unordered list, It finds the second smallest element (5), It swaps it with the second element of the unordered list. Similarly, it continues to sort the given elements

Output : DISPLAY list number sorted

PSEUDOCODE:

START

SET number = [5, 7, 9, 1, 2]

SET len = LENGTH(number)

SET i = 1

FOR i in range 1 to length(list) - 1

 SET Current = list[i]

 SET j=i

 WHILE j > 0 AND list[j - 1] > Current

 SET list[j] = list[j-1]

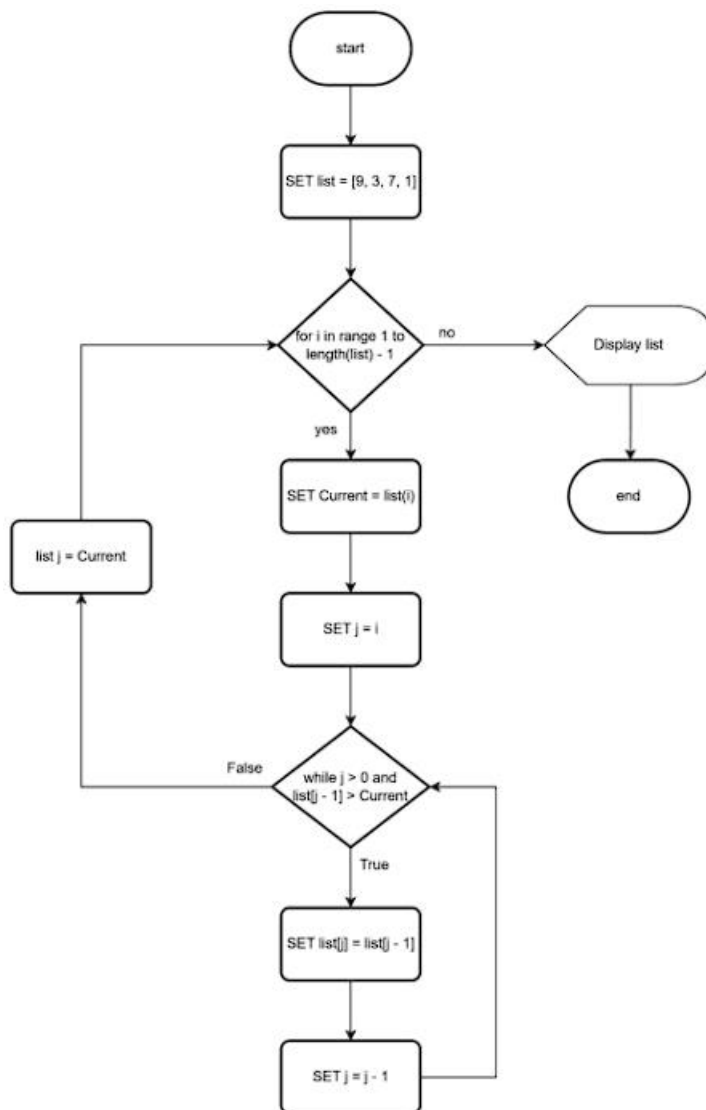
 SET j = j -1

 List[j] = Current

DISPLAY list

END

FLOWCHART:



1. Selection Sort

Input : list number

Process : It finds the first smallest element (2), It swaps it with the first element of the unordered list, It finds the second smallest element (5), It swaps it with the second element of the unordered list. Similarly, it continues to sort the given elements

Output : DISPLAY list number sorted

PSEUDOCODE:

START

SET number = [11, 5, 9, 2, 3]

SET len = LENGTH(number)

SET i = 1

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FOR i in range 0 to len -1
    SET min_index = i
    FOR j in range I + 1 to length(list) - 1
        IF list[j] < list[min_index]
            SET min_index = j
    SET temp = list[i]
    List[i] = list[min_index]
Display list
END
```

FLOWCHART:

