

Tugas 4

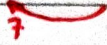
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Kelas : 2C

Makul : Algoritma dan Struktur Data 2

1. Insertion sort

Step 0 25 7 9 13 3



Step 1 7 25 9 13 3



Step 2 7 9 25 13 3



Step 3 7 9 13 25 3



Step 4 3 7 9 13 25

2. Bubble sort

25	7	9	13	3
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$i = 1$ $J = 4$ 25 7 9 13 3

$J = 3$ 25 7 9 3 13

$J = 2$ 25 7 3 9 13

$J = 1$ 25 3 7 9 13

$i = 2$ $J = 4$ 3 25 7 9 13

$J = 3$ 3 25 7 9 13

$J = 2$ 3 25 7 9 13

$i = 3$ $J = 4$ 3 7 25 9 13


$J = 3$ 3 7 25 9 13

$i = 4$ $J = 4$ 3 7 9 25 13

Akhir 3 7 9 13 25

3. Selection Sort

25 7 9 13 3



3 7 9 13 25

↑

3 7 9 13 25

↑

3 7 9 13 25

↑

3 7 9 13 25

4. Shell Sort

$n = 5$

Jarak = $5/2 = 2$

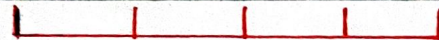
0 1 2 3 4
25 7 9 13 3



3 7 9 13 25

Jarak = $2/2 = 1$

3 7 9 13 25



3 7 9 13 25

7. Sorting dan searching

step 0 25 7 9 13 3

step 1 7 25 9 13 3

step 2 7 9 25 13 3

step 3 7 9 13 25 3

step 4 3 7 9 13 25 → length = 5

cari = 13

$i = 0$; $0 < 5 \rightarrow T$

cari == A[0] → $13 == 3 \rightarrow F$ (stop)

$i++$; $0+1 = 1$; $1 < 5 \rightarrow T$

cari == A[1] → $13 == 7 \rightarrow F$ (stop)

$i++$; $1+1 = 2$; $2 < 5 \rightarrow T$

cari == A[2] → $13 == 9 \rightarrow F$ (stop)

$i++$; $2+1 = 3$; $3 < 5 \rightarrow T$

cari == A[3] → $13 == 13 \rightarrow T$ (Data ditemukan)