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2 A
Algoritma

1 InsertionSort

Step 0

| 25 | 7 | 9 | 13 | 3 |

Step 1

| 7 | 25 | 9 | 13 | 3 |

Step 2

| 7 | 9 | 22 | 13 | 3 |

Step 3

| 7 | 9 | 13 | 25 | 3 |

Step 4

| 3 | 7 | 9 | 13 | 25 |

2. BubbleSort

| 25 | 7 | 9 | 13 | 3 |

I = 1, j = 4

25	7	9	13	3
25	7	9	3	13
25	7	3	9	13
25	3	7	9	13

j = 3
j = 2
j = 1

I = 2

3	25	7	9	13
3	25	7	9	13
3	25	7	9	13

j = 3
0 = 2
j = 1

I = 3, j = 2

| 2 | 7 | 25 | 9 | 13 |
| 3 | 7 | 25 | 9 | 13 |

j = 1

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	11	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

indeks: 0 1 2 3 4

Cari : 13 :

$i = 0$; $0 < 5$ → T

     cari == A[0] => 13 == 3 → False (skip)

i++; i = 0+1 = 1; $1 < 5$ → T

     cari == A[1] => 13 == 7 → False (skip)

i++; i = 1+1 = 2; $2 < 5$ → T

     cari == A[2] => 13 == 9 → False (skip)

i++; i = 2+1 = 3; $3 < 5$ → T

     cari == A[3] => 13 == 13 → True (Data ditemukan)