

**Nama : Muhammad Dzikrul Hakam**

**Kelas : D4 MI 2019A**

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## Latihan (1)



• Data :

**7, 19, 4, 8, 20, 1**

Urutkan secara ascending dengan  
menggunakan algoritma insertion sort!

Proses	A[1]	A[2]	A[3]	A[4]	A[5]	A[6]
K = 1	7	19	4	8	20	1
K = 2	7	19	4	8	20	1
K = 3	7	4	19	8	20	1
K = 4	4	7	19	8	20	1
K = 5	4	7	8	19	20	1
K = 6	4	7	8	19	1	20
K = 7	4	7	8	1	19	20
K = 8	4	7	1	8	19	20
K = 9	4	1	7	8	19	20
K = 10	1	4	7	8	19	20
Urutan	1	4	7	8	19	20

## Latihan (2)



- Data :

7, 19, 4, 8, 20, 1

Urutkan secara ascending dengan menggunakan algoritma selection sort!

Proses	A[1]	A[2]	A[3]	A[4]	A[5]	A[6]
K = 1 ; LOC = 3	7	19	4	8	20	1
K = 1 ; LOC = 6	4	19	7	8	20	1
K = 2 ; LOC = 3	1	19	7	8	20	4
K = 2 ; LOC = 6	1	7	19	8	20	4
K = 3 ; LOC = 4	1	4	19	8	20	7
K = 3 ; LOC = 6	1	4	8	19	20	7
K = 4 ; LOC = 6	1	4	7	19	20	8
K = 5 ; LOC = 6	1	4	7	8	20	19
Urutan	1	4	7	8	19	20

## Latihan (3)



- Data :

7, 19, 4, 8, 20, 1

Urutkan secara ascending dengan menggunakan algoritma bubble sort!

Pass Pertama		
7, 19, 4, 8, 20, 1	=>	7, 19, 4, 8, 20, 1
7, 19, 4, 8, 20, 1	=>	7, 4, 19, 8, 20, 1
7, 4, 19, 8, 20, 1	=>	7, 4, 8, 19, 20, 1
7, 4, 8, 19, 20, 1	=>	7, 4, 8, 19, 20, 1
7, 4, 8, 19, 20, 1	=>	7, 4, 8, 19, 1, 20
Pass Kedua		
7, 4, 8, 19, 1, 20	=>	4, 7, 8, 19, 1, 20
4, 7, 8, 19, 1, 20	=>	4, 7, 8, 19, 1, 20
4, 7, 8, 19, 1, 20	=>	4, 7, 8, 19, 1, 20
4, 7, 8, 19, 1, 20	=>	4, 7, 8, 1, 19, 20
4, 7, 8, 1, 19, 20	=>	4, 7, 8, 1, 19, 20
Pass Ketiga		
4, 7, 8, 1, 19, 20	=>	4, 7, 8, 1, 19, 20
4, 7, 8, 1, 19, 20	=>	4, 7, 8, 1, 19, 20
4, 7, 8, 1, 19, 20	=>	4, 7, 1, 8, 19, 20
4, 7, 1, 8, 19, 20	=>	4, 7, 1, 8, 19, 20
4, 7, 1, 8, 19, 20	=>	4, 7, 1, 8, 19, 20
Pass Keempat		
4, 7, 1, 8, 19, 20	=>	4, 7, 1, 8, 19, 20
4, 7, 1, 8, 19, 20	=>	4, 7, 1, 8, 19, 20
4, 1, 7, 8, 19, 20	=>	4, 1, 7, 8, 19, 20
4, 1, 7, 8, 19, 20	=>	4, 1, 7, 8, 19, 20

4, 1, 7, 8, 19, 20	=>	4, 1, 7, 8, 19, 20
Pass Kelima		
4, 1, 7, 8, 19, 20	=>	1, 4, 7, 8, 19, 20
4, 1, 7, 8, 19, 20	=>	4, 1, 7, 8, 19, 20
4, 1, 7, 8, 19, 20	=>	4, 1, 7, 8, 19, 20
4, 1, 7, 8, 19, 20	=>	4, 1, 7, 8, 19, 20
4, 1, 7, 8, 19, 20	=>	4, 1, 7, 8, 19, 20