



# PoliTeknik Harapan Bersama

Jl. Dewi Sartika No. 71 Telp./Fax. 0283-350567

Tegal - Jawa Tengah

<http://www.politektegal.ac.id>

## LEMBAR JAWAB

Nama : Ainul Kharis

Mata Kuliah : Algoritma & Struktur Data 2

NIM : 21090090

Waktu : 60 menit

Prodi/Semester : TI/2

Dosen Pengampu : Ary Herianto, S.Kom, MMSi

Kelompok : \_\_\_\_\_

Tanda Tangan : Ainul

Jawaban

1.  $a[] = 10, 56, 78, 2, 53, 78, 82, 0, 9$   
 $n = 9$

Quick

$a = 10, 56, 78, 2, 53, 78, 82, 0, 9$

start = 0

end =  $9 - 1 = 8$

int P = partition (a, 0, 8)

Partition :

Pivot = data [8] = 9

$i = 0 - 1 = -1$

for (j = 0; j < 8)

1. j = 0

if (10 < 9) False

Lanjut

5. j = 4

if (53 < 9) False

Lanjut

9. j = 8

if (9 < 9) False

int t = a[i+1] → t = a[0+1]

→ t = a[1]

t = 56;

2. j = 1

if (56 < 9) False

Lanjut

6. j = 5

if (78 < 9) False

Lanjut

a[i+1] = a[end]

a[1] = a[8];

a[1] = 82;

3. j = 2

if (78 < 9) False

Lanjut

7. j = 6

if (82 < 9) False

Lanjut

a[end] = t → a[8] = 78;

return (i+1) → return 7

4. j = 3

if (2 < 9) True

i = i + 1;

i = -1 + 1; → i = 0;

t = a[0] → t = 10

a[i] = a[j] → a[0] = a[3]

a[j] = t → a[3] = 10;

8. j = 7

if (0 < 9) True

i = i + 1;

i = 0 + 1; → i = 1

t = a[i] → t = 56

a[i] = a[j] → a[1] = a[7]

a[j] = t → a[7] = 56;

a = 0, 2, 9, 10, 53, 56, 78, 78, 82

0 1 2 3 4 5 6 7 8

2. Public class kendaraanMobil {

Public static class Mobil {

Private String MeruMobil;

Private int platMobil;

Public Mobil () {

}

Public Mobil (String merk, int plat) {

this.MeruMobil = merk;

this.platMobil = plat;

}

Public String getMeruMobil () { return this.MeruMobil; }

Public void setMeruMobil (String MeruMobil) { this.MeruMobil = MeruMobil; }

Public int getPlatMobil () { return this.platMobil; }

Public void setPlatMobil (int platMobil) { this.platMobil = platMobil; }

Public static void main (String [] args) {

ArrayList < Mobil > mobil = new ArrayList <> ();

Mobil carProduct = new Mobil ();

carProduct.setMeruMobil ("HRV", "AVANZA", "PANTHER", "INOVA",  
"SIGRA", "AYLA")

carProduct.setPlatMobil ("G 5674 AE", "B 7639 BK", "K 6352 AB",  
"T 7638 ZA", "AD 7638 AE", "DK 9083 HJ");

mobil.add (carProduct);

for (int i = 0; i < mobil.size(); i++) {

System.out.println (mobil.get (i).getMeruMobil ());

System.out.println (mobil.get (i).getPlatMobil ());

}

}

}