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LEMBAR JAWAB

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Prodi/Semester : D4 TEKNIK INFORMATIKA / 2
Kelompok : 2A

Mata Kuliyah : ALGORITMA & STRUKTUR DATA
Waktu : 60 MENIT
Dosen Pengampu : ARY HERIJANTO, S.Kom, MMSi
Tanda Tangan :

① a[] : 10 56 78 2 53 78 82 0 9
n : 9

Quick

	0	1	2	3	4	5	6	7	8
a :	10	56	78	2	53	78	82	0	9

Start : 0
end : 9 - 1 = 8
int p : partition (a,0,8);

Partition

	0	1	2	3	4	5	6	7	8
a :	10	56	78	2	53	78	82	0	9

pivot = a[8] : 9
i : 0 - 1 : -1
for (J=0 : J<=8)

J : 0
if (a[0] < pivot)
10 < 9 ? (x)

J : 1
if (a[1] < 9)
56 < 9 (x)

J = 2
if (a[2] < 9)
78 < 9 (x)

J : 3
if (a[3] < 9)
2 < 9
i : i + 1
i : -1 + 1 : 0;
t : a[0]; → t : 10
a[0] : a[3] → a[0] : 2;
a[3] : 10;

	0	1	2	3	4	5	6	7	8
	2	56	78	10	53	78	82	0	9

J = 4
if (a[4] < 9)
53 < 9 (x)

J : 5
if (a[5] < 9)
78 < 9 (x)

J : 6
if (a[6] < 9)
82 < 9 (x)

J : 7
if (a[7] < 9)
0 < 9
i : i + 1
i : 0 + 1 : 1;
t : a[1]; → t : 56
a[1] : a[7] → a[1] : 0;
a[7] : 56;

	0	1	2	3	4	5	6	7	8
	2	0	78	10	53	78	82	56	9

J : 8
if (a[8] < 9)
9 < 9 (x)

int t = a[i+1] → t = a[1+1];

t = a[2];

t = 78;

a[i+1] = a[end] → a[2] = a[8]

a[2] = 9;

a[end] = t → a[8] = 78;

return (i+1) → return 2;

	0	1	2	3	4	5	6	7	8
a =	2	0	9	10	53	78	82	56	78

p = 2

int p = 2; (from return);

quick (a, start, p-1);

quick (a, 0, 1);

int p = partition (a, 0, 1);

Partition

pivot = a[end]

pivot = a[1]

pivot = 0

i = (0-1) → i = -1;

for (J = 0 : J <= 1)

J = 0

if (a[0] < 0)

2 < 0 (×)

J = 1

if (a[1] < 0)

0 < 0 (×)

int t = a[i+1] → t = a[-1+1]

t = a[0]

t = 2;

a[i+1] = a[end]

a[0] = a[1] → a[0] = 0;

a[end] = t → a[1] = 2;

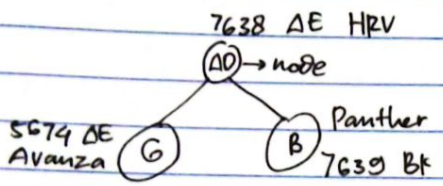
return (i+1) → return 0;

	0	1	2	3	4	5	6	7	8
a =	0	2	9	10	53	78	82	56	78

p = 0

② Public Class ArrayList {
Public static class mobil {
Private String MerkMobil;
Private String Plat;
Public mobil ( ) {
}
Public mobil (String merk, String plat) {
this. MerkMobil = merk merk ;
this. Plat = plat ;
}
Public String get. MerkMobil ( ) {return this. MerkMobil;
}
Public void set MerkMobil (String MerkMobil) { this. MerkMobil = MerkMobil }
}
}

•) Menentukan pohon biner



Ket :
Left : lebih kecil
right : lebih besar

•) Lihat input nodenya
Node left, right : itu tandanya angka lebih kecil dari nodenya.
Setelah itu kita mencari kelcocokan dengan nilai yang lebih besar.
Misalnya nodenya 7638 AE. HRV lalu geser ke kiri dengan nilai 5674 AE
nilainya lebih kecil avanza. Setelah itu geser ke kanan.