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LEMBAR JAWAB

Nama : Nabilla Auly Zahra
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Prodi/Semester : DIV Teknik Informatika / 2
Kelompok : A
Mata Kuliyah : Algoritma & Struktur Data2
Waktu : 60 menit
Dosen Pengampu : Ary Heriyanto, S. Kom, MMSI
Tanda Tangan :

① a[] = 10, 56, 78, 2, 53, 78, 82, 0, 9
n = 6

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
j = 0 - 1 = -1
for (j = 0; j <= 8)

J = 0
if (a [0] < pivot)
10 < 9 ?
j = i + 1
i = -1 + 1 = 0;
t = a [0]; → t = 10;
a [0] = a [0]; a [0] = 10;
a [0] = t; → a [0] = 10;

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

J = 2
if (a [2] < 9)
78 < 9 ✗

J = 3
if (a [3] < 9)
(2 < 9)
j = i + 1 → i = 1 + 1 = 2
t = a [2]; → t = 10;
a [0] = a [3]; → a [0] = 2;
a [3] = 10;
0 1 2 3 4 5 6 7 8
a = 2, 56, 78, 10, 53, 78, 82, 0, 9

J = 4
if (a [4] < 9)
53 < 9 ✗

J = 5
if (a [5] < 9)
78 < 9 ✗

J = 6
if (a [6] < 9)
82 < 9 ✗

J = 7
if (a [7] < 9)
0 < 9
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
a = 2, 0, 78, 10, 53, 78, 82, 56, 9

J = 8
if (a [8] < 9)
9 < 9 ✗

```
int t = a [i+1] -> t = a [1+1];
                    : a [2]
                t = 78;
a [1+1] : a [end] -> a [2] = a [8]
                      a [2] = 9;
a [end] : t -> : a [8] = 78;
return (i+1) -> return 2
}
```

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

P = 2

//

(2)

```
Package model oop;
public class Arraylist {
public static class mobil {
    private string merk mobil;
    private int plat nomor;
public array mobil () {
public array model mobil (string merk, int plat) {
    this. merk mobil = merk;
    this. plat nomor = plat;
}
    Public string get merk () {
    Return this. merk mobil;
}
    public int get plat () {
    return this. plat nomor;
}
    public void set plat (int plat) {
    this. plat = plat;
}
    Public static void main (){
Array list < Array mobil panther = new Array list ();
Array list model mobil car product = new arraylist ();
car product. set merk mobil ("panther");
car product. set plat nomor ("K+6352+"AB");
Car product = new Array list (merk "panther", "K6352 AB");
panther. add (car product);

for (int i =0 i < panther plat (); ++ ii) {
System out println ((Arraylist model mobil. mobil) panther. get (i)
get merk (0);
System out println ((Arraylist model mobil) panther. get (i) get plat ())
```

Node : tipe mobil
key : plat nomor
menemukan level berapa kendaraan
1. mencari akar dari BST te
2. setelah itu ditemukan panti
3. ketika nilai pda data ber
akan berada pada node kan
4. selanjutnya
5. hasil akhirn

;

= a [8]

] = 9;

78

Node : tipe mobil
key : plat nomor
menemukan level berapa kendaraan panther yaitu :
1. mencari akar dari BST terlebih dahulu
2. setelah itu ditemukan panther dengan plat 6352 dan dibandingkan dgn mobil lain.
3. ketika nilai pda data berhasil maka dia akan berada pd node kiri, jika leb.h kecil akan berada pada node kanan
4. selanjutnya dibandingkan dgn data ketiga dan tentukan data kecil / besar
5. Hasil akhirnya pada BST panther berada pd level 4.

g merk, int plat) {