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Output

File barang rental

```
public class BarangRental |
String noTNKG;
String namaKendaraan;
String jenisKendaraan;
int tahun;
int biayaSewa;
BarangRental prev, next;

BarangRental (BarangRental prev , String noTNKB, String namaKendaraan, String jenisKendaraan, int tahun, int biayaSewa, BarangRental next) {
    this.noTNKG= noTNKG;
    this.namaKendaraan = namaKendaraan;
    this.jenisKendaraan = jenisKendaraan;
    this.tahun = tahun;
    this.tahun = tahun;
    this.prev = prev;
    this.next = next;
}
```

File TransaksiRental

```
public class TransaksiRental {
    int kodeTransaksi;
    String namaPeminjam;
    int lamaPinjam;
    double totalBiaya;
    BarangRental br;
    TransaksiRental prev,next;
    TransaksiRental prev,next;
    TransaksiRental (TransaksiRental prev,int kodeTransaksi, String namapeminjam,int lamaPinjam,double totalBiaya,BarangRental br,TransaksiRental next){
        this.kodeTransaksi+kodeTransaksi;
        this.namaPeminjam = namapeminjam;
        this.lamaPeminjam = namapeminjam;
        this.lamaPinjam = lamapinjam;
        this.totalBiaya = totalBiaya;
        this.prev = prev;
        this.prev = prev;
        this.next = next;
}
```

File RentalMain

```
• • •
public class RentalMain {
   public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        Doublelinkedlists dll = new Doublelinkedlists();
        dll d = new dll();
        dll.addFirst("S4567YV", "Honda Beat", "Motor", 2017, 10000);
        dll.addFirst("N1453AA", "Toyota Yaris", "Motor", 2022, 30000);
        dll.addFirst("N1453AA", "Toyota Yaris", "Motor", 2022, 30000);
        dll.addFirst("B123AAG", "Toyota Innova", "Mobil", 2019, 60000);
        dll.addFirst("B123AAG", "Toyota Avanza", "Mobil", 2021, 25000);
        boolean lever = frue.
                    boolean lever = true;
int kode = 1;
                  System.out.print("Masukan Nama Peminjam : ");
String nama = sc.nextLine().trim();
                                       System.out.print("Masukan Nomor TNKB : ");
String TNKB = sc.nextLine().trim();
int index = dll.findIndexByTNKB(TNKB);
                                       if (index != -1) {
    BarangRental br = dll.get(index);
                                                System.out.print("Lama Pinjam : ");
int pinjam = sc.nextInt();
sc.nextLine();
                                                String member = sc.nextLine();
                                                double totalBiaya = pinjam * br.biayaSewa;
                                               if (pinjam >= 48 && pinjam <= 78) {
   totalBiaya *= 0.9;
} else if (pinjam > 78) {
   totalBiaya *= 0.8;
System.out.pr(htth(
"|Kode/t|Nomor TNKB\t|Nama Barang\t|Nama
Peminjam\t|Lama Pinjam\t|Total Biaya");
System.out.println("|" + kode + "\t|" + br.noTNKB
+ "\t|" + br.namaKendaraan + "\t|" + nama
+ "\t|" + pinjam + "\t|" + totalBiaya);
                                                } else {
    System.out.println("Kendaraan dengan TNKB tersebut
 tidak ditemukan.");
                                               d.print();
break;
                                       case 4:
                                               d.sortByTNKB();
d.print();
                                      break;
default:
                                                break:
```

```
• • •
public class Doublelinkedlists {
    BarangRental head;
    int size:
    public Doublelinkedlists() {
        head = null;
size = 0;
    public boolean isEmpty() {
    public void addFirst(String noTNKB, String namaKendaraan, String jenisKendaraan, int
tahun,int biayaSewa) {
         if (isEmpty()) {
             head = new BarangRental(null, noTNKB, namaKendaraan, jenisKendaraan,
         } else {
BarangRental newNode = new BarangRental(null, noTNKB, namaKendaraan, jenisKendaraan, tahun,biayaSewa, head);
             head.prev = newNode;
head = newNode;
    public void print() {
    if (!isEmpty()) {
             System.out.println("+++++++");
while (tmp != null) {
System.out.println("|Nomor TNKB\t\t|Nama Kendaraan\t\t|Jenis\t\t|Tahun\t\t|Biaya Sewa Perjam");
System.out.println( "|+tmp.noTNKB+"\t\t|"+
tmp.namaKendaraan+"\t\t|"+tmp.jenisKendaraan+"\t\t|"+tmp.tahun+"\t\t|"+tmp.biayaSewa)
         } else {
             System.out.println("Rental kosong Kosong");
    public int findIndexByTNKB(String TNKB) {
        BarangRental current = head;
        int index = 0;
while (current != null) {
             if (current.noTNKB.equals(TNKB)) {
    return index; // TNKB ditemukan, kembalikan indeks
         return -1; // TNKB tidak ditemukan
    public BarangRental get(int index) {
         BarangRental current = head;
         int count = 0;
while (current != null) {
             if (count == index) {
```

```
.
         public dll() {
   head = null;
   size = 0;
         public boolean isEmpty() {
    return head == null;
head = new TransaksiRental(null, kodetransaksi, namapeminjam, amaPinjam,totalBiaya,br, null);
               } else {
    TransaksiRental newTransaksiRental = new TransaksiRental(null, kodetransaksi
 amapeminjam, lamaFinjam,totalBiaya,br, head);
head.prev = newTransaksiRental;
head = newTransaksiRental;
          public void print() {
System.out.println("Rental kosong Kosong");
          public void sortByTNKB() {
   if (size > 1) {
      boolean wasChanged;
}
                    do {
    TransaksiRental current = head;
    TransaksiRental previous = null
                          TransaksiRental next = head.next; wasChanged = false;
                          while (next != null) {
   if (current.br.noTNKB.compareTo(next.br.noTNKB) > 0) {
                                     if (previous != null) {
   TransaksiRental sig = next.next;
                                    previous.next = next;
next.next = current;
current.next = sig;
} else {
                                          next.next = current;
current.next = sig;
                               next = current.next;
} else {
                                    current = next;
next = next.next;
```