

```

public class ListSach {

    private Sach[] sachArr = new Sach[100];

    private int countSach,countSTK=0;

    private double sum1=0, sum2=0,tbcdg=0,sumdg=0;

    public ListSach()
    {
        countSach=0;
        for(int i=0; i<100; i++)
        {
            sachArr[i] = new Sach();
        }
    }

    public void addSach(int loaisach,Scanner sc)
    {
        if(countSach>100)
            System.out.println("Khong the them du lieu!");
        else
        {
            if(loaisach==1)
            {
                sachArr[countSach] = new SachGiaoKhoa();
                SachGiaoKhoa sgk = new SachGiaoKhoa();
                sgk.nhap(sc);
                sachArr[countSach]=sgk;
                sum1 += sgk.thanhTien();
                sgk.setLoaiSach(loaisach);
            }
            else
            {

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        sachArr[countSach] = new SachThamKhao();
        SachThamKhao stk = new SachThamKhao();
        stk.nhap(sc);
        sachArr[countSach]=stk;
        sum2 += stk.thanhTien();
        sumdg += stk.getDonGia();
        stk.setLoaiSach(loaisach);
        countSTK++;
    }
    countSach++;
}
}

public void xuattt() {
    for (int i = 0; i < countSach; i++) {
        System.out.println(sachArr[i].toString());
    }
}

public void xuatTongTT() {
    System.out.println("-----Tong Thanh tien-----");
    System.out.println("| Sach Giao Khoa: " + sum1 + "|");
    System.out.println("| Sach Tham Khao: " + sum2 + "|");
    System.out.println("-----");
}

public void xuatTongTBC() {
    tbcdg = sumdg / countSTK;
    System.out.println("-----Trung binh cong don gia-----");
    System.out.println("| Sach Tham Khao: " + tbcdg + "|");
    System.out.println("-----");
}

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    public void xuatTTSGK_NXB(String nxb) {
        for (int i = 0; i < countSach; i++) {
            if(sachArr[i].getLoaiSach()==1 &&
(sachArr[i].getNhaXB().equalsIgnoreCase(nxb)))
                System.out.println(sachArr[i].toString());
        }
    }

    public void sapxeptheoma() {
        for (int i = 0; i < countSach; i++) {
            for (int j = i+1; j < countSach; j++) {
                if(sachArr[i].getMaSach().compareToIgnoreCase(sachArr[j].getMaSach())>0)
                {
                    Sach tmp = sachArr[i];
                    sachArr[i] = sachArr[j];
                    sachArr[j] = tmp;
                }
            }
        }
    }
}

```

```

public class Test {
    public static void main(String[] args) {
        int x; Scanner sc = new Scanner(System.in);
        ListSach dss = new ListSach();
        do {
            System.out.println("\n\t-----");
            System.out.println("\t0. Exit");
            System.out.println("\t1. Them Sach giao khao");
            System.out.println("\t2. Them Sach tham khao");

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        System.out.println("\t3. Hien thi thong tin DS Sach");
        System.out.println("\t4. Hien thi tong thanh tien cac loai sach");
        System.out.println("\t5. Hien thi trung binh cong don gia sach tham khao");
        System.out.println("\t6. Hien thi sach giao khoa cua nxb : ");
        System.out.println("\t~~~~~");
        x = sc.nextInt();
        System.out.println("----->>");
        switch(x){
            case 1: dss.addSach(x,sc);break;
            case 2: dss.addSach(x, sc);break;
            case 3: dss.xuatTT();break;
            case 4: dss.xuatTongTT();break;
            case 5: dss.sapxeptheoma();break;
            case 6: System.out.println("Nhap Nha xuất bản :");
                    String nxb = sc.next();
                    dss.xuatTTSGK_NXB(nxb);
                    break;
        }
    } while(x!=0);
    System.out.println("");
}
}

```