学习情况表

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（请在下面表格本周学习情况）

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| 学习情况简述 |
| 学习了数据结构-查找  并学习了Java的面向对象  练习了相应代码 |
| 本周练习过的代码 |
| 代码一：练习代码  package demo;  public class shopping {  int id;  String name;  double price;  int num;  }  package demo;  import java.util.Scanner;  public class test {  public static void main(String[] args) {   shopping[] s = new shopping[100];  while (true) {  System.*out*.println("请选择");  System.*out*.println("add");  System.*out*.println("query");  System.*out*.println("update");  System.*out*.println("pay");  Scanner sc = new Scanner(System.*in*);  System.*out*.println("请输入");  String next = sc.next();   switch (next) {  case "add":  *addGoods*(s);  break;  case "query":  *queryGoods*(s);  break;  case "update":  *updateGoods*(s,sc);  break;  case "pay":  *payGoods*(s);  break;  }  }  }   private static void payGoods(shopping[] s) {  *queryGoods*(s);  double sum = 0;  for (int i = 0; i < s.length; i++) {  if(s[i] == null) break;  sum += s[i].price \* s[i].num;  }  System.*out*.println("本次购买商品总价为：" + sum);  }   private static void updateGoods(shopping[] s,Scanner sc) {  System.*out*.println("请输入您要更改的商品id");  int id = sc.nextInt();   for (int i = 0; i < s.length; i++) {  if (s[i].id == id){  System.*out*.println("请输入您要更改的数量");  int num1 = sc.nextInt();  s[i].num = num1;  *queryGoods*(s);  break;  } else {  System.*out*.println("购物车中无商品信息");  break;  }  }    }   private static void queryGoods(shopping[] s) {  System.*out*.println("查询购物车商品如下");  System.*out*.println("编号\t名称\t\t\t价格\t\t购买数量");  for (int i = 0; i < s.length; i++) {  shopping g = s[i];  if (g != null) {  System.*out*.println(g.id + "\t\t" + g.name + "\t\t\t" + g.price + "\t\t\t" + g.num);  } else break;  }  }   public static void addGoods(shopping[] s) {  shopping g = new shopping();  Scanner sc = new Scanner(System.*in*);  System.*out*.println("请输入编号");  g.id = sc.nextInt();  System.*out*.println("请输入商品名称");  g.name = sc.next();  System.*out*.println("请输入商品数量");  g.num = sc.nextInt();  System.*out*.println("请输入商品价格");  g.price = sc.nextDouble();  for (int i = 0; i < s.length; i++) {  if (s[i] == null) {  s[i] = g;  break;  }   }  System.*out*.println("你的商品" + g.name + "添加完成");  } } |
| 代码二：线性查找、折半查找  package search;  import java.nio.file.ClosedWatchServiceException; import java.util.Scanner;   public class search {  public static void main(String[] args) {  Scanner sc = new Scanner(System.*in*);  System.*out*.println("请输入数组（用空格隔开，结束时输入回车）");  String[] nums = null;  nums =sc.nextLine().split(" ");  int[] a = new int[nums.length];  for (int i = 0; i < a.length; i++) {  a[i]=Integer.*parseInt*(nums[i]);  }  *sort*(a);  System.*out*.println("排序后的数组:");  for (int i = 0; i < a.length; i++) {  System.*out*.print(a[i]+"\t");  }  System.*out*.println("请输入要查找的数字");  int num = sc.nextInt();  int loc1 = *search1*(num,a);  int loc2 = *search2*(num,a);  System.*out*.println(loc1);  System.*out*.println(loc2);  }   private static int search2(int num, int[] a) {  int low = 0, high = a.length-1;  while (high >= low) {  int i = (low + high) / 2;  if(a[i] == num) return i+1;  else if (a[i] > num) high = i -1;  else if (a[i] < num) low = i + 1;  }  return 0;  }   private static void sort(int[] a) {  for (int i = 0; i < a.length-1; i++) {  for (int i1 = 0; i1 < a.length-1-i; i1++) {  if(a[i1] > a[i1+1]){  int t =a[i1];  a[i1] =a[i1+1];  a[i1+1] =t;  }   }   }  }   private static int search1(int num, int[] a) {  for (int i = 0; i < a.length; i++) {  if(a[i] == num) return i+1;   }  return 0;  }   private static void print(int a[]) {  for (int i = 0; i < a.length; i++) {  if (a[i] == 16499) break;  System.*out*.print(a[i]+"\t");  }  }  } |