2017 级高级程序设计语言试卷 A 答案

一．选择题：（30 分）

1	2	3	4	5	6	7	8	9	10
D	A	C	B	D	B	D	D	A	B
11	**12**	**13**	**14**	**15**					
B	D	C	A	C					

二．阅读题（40 分）

1.

```
default
case 1
case 1
case 2
case 3
case 4
case 4
case 5
default
case 1
```

每行1分

2.（6 分）

```
1 2 3 4 5
1 2 4 3 5
1 3 2 4 5
1 3 4 2 5
1 4 3 2 5
1 4 2 3 5
```

每行 1 分

3. （14 分）

```
Analysing code: a201a
Improper Format: a201a
Finally
Completed: a201a
********
```

```
Analysing code: a201
Improper length: a201
Finally
********
Analysing code: a1017
Finally
Completed: a1017
********
Out of boundes, Unsuccessfully ended
```

每行 1 分

4.（10分）

```
A in A
A in A
D in A
B in A
B in A
D in A
B in B
B in B
D in A
```

每行 1 分，顺序有错最高：1 分

三. 编程（30 分）

1.（6 分）

```
    public void intSort (int[] list){
    int min;
    int temp;
    for (intindex = 0; index<list.length-1; index++)-------1分
      {
       min = index; ----------1分
       for (intscan = index+1; scan<list.length; scan++)------1分
        if (list[scan] - list[min] < 0)---------1分
           min = scan;-------1分

    // Swap the values---------1分
    temp = list[min];
    list[min] = list[index];
    list[index] = temp;
          }
  }
```

2. 已知程序的执行结果为，

```
a trip from FoodHall to Campus Gate by OFO
a trip from Campus Gate to DinghaoSquareby Taxi
a trip from DinghaoSquaretoYudi Square by OFO
total cost is 32.0
```

完整下面代码（共 6 处，12 分）---------每处 2 分

```
abstractclassPublicTrans {   // 公共交通
    private String fromPlace, toPlace;
    publicPublicTrans(String fromPlace, String toPlace) {
        //此处添加代码-1
        this.fromPlace = fromPlace;
        this.toPlace = toPlace;
    }
    publicabstractdoublecomputeCost();
    public String toString() {
        return"a trip from " + fromPlace + "to " + toPlace;
    }
}

class OFO extendsPublicTrans {
    public OFO(String fromPlace, String toPlace) {
        //此处添加代码-2
        super(fromPlace, toPlace);
    }
    publicdoublecomputeCost() {
        return 1;  //每次1元
    }
    public String toString() {
        //此处添加代码-3
        return super.toString() + " by OFO\n";
    }
}

class Taxi extendsPublicTrans {
    finaldoublePRICE = 10; // 每公里价格
    privatedoubledistance;
    public Taxi(String fromPlace, String toPlace, doubledist) {
        super(fromPlace, toPlace);
        distance = dist;
    }
    publicdoublecomputeCost() {
        //此处添加代码-4
        return PRICE * distance;
```

```
    }
    public String toString() {
        returnsuper.toString() + "by Taxi\n";
    }
}

public class E52 {
    public static void main(String[] args){
        double totalCost = 0;
        PublicTrans[] oneTrip= {new OFO("FoodHall","Campus Gate"),
//此处添加代码-5
                new Taxi("Campus Gate", "Dinghao Square",3), new OFO("Dinghao
Square","Yudi Square")
};
        for (PublicTransp : oneTrip){
//此处添加代码-6
            totalCost += p.computeCost();
            System.out.print(p);
        }
        System.out.println("total cost is " + totalCost);
    }
}
```

3.请根据整数链表节点（Node）的定义，完成下列链表（List）程序。（12 分）

3分：

```
public int length(){
            Node temp=head;
            int count=0;
            while (temp!=null){ ---------1分
                temp=temp.next;--------1分
                count++;
            }
            return count; ------------1分
   }
```

4 分

```
public void removeRep ( ){
    Node cur=head;
    Node pre=null,next=null;-------1分
    while(cur!=null){
        pre=cur;-------1分
        next=cur.next;
```

```
        while(next!=null){
            if (cur.value==next.value)
                pre.next=next.next; ------1分
            else
                pre=next;
            next=next.next; ------1分
        }
        cur=cur.next;
    }
}
```

5 分

```
public void insertSortedList(intd) {
    Node p=head;
    Node prevp = null;
    while(p!=null&&p.value<d){-----1分
        prevp = p;------1分
        p = p.next;
    }
    if (prevp == null)
        head = new Node(d,head);----1分
    elseif (p != null&&p.value>d) ------1分
        prevp.next = new Node(d,p);-----1分
    }
```