

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 (int index = 0; index<list.length-1; index++)-----1分  
    {  
        min = index; -----1分  
        for (int scan = 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

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

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

class Taxi extends PublicTrans {
    final double PRICE = 10;    // 每公里价格
    private double distance;
    public Taxi(String fromPlace, String toPlace, double dist) {
        super(fromPlace, toPlace);
        distance = dist;
    }
    public double computeCost() {
        //此处添加代码-4
        return PRICE * distance;
    }
}
```

```

    }
    public String toString() {
        return super.toString() + "by Taxi\n";
    }
}

public class E52 {
    public static void main(String[] args){
        double totalCost = 0;
        PublicTransp[] 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(int d) {
    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
    }
}

```