

编程题第一题 版本号 AC 80%

```
package middleLinkCode;
```

```
import java.util.Scanner;
```

```
public class xinlang1 {
```

```
    public static void main(String[] args) {  
        // TODO Auto-generated method stub  
        // 3, 4.3.5.4 2.10.3 2.4  
        Scanner sc = new Scanner(System.in);  
        String[] s1 = sc.nextLine().split(" ");  
  
        System.out.println(getMinVersion(s1));  
        sc.close();  
    }
```

```
    public static String getMinVersion(String[] list) {  
        // 在这里编写代码  
        int len = list.length;  
        if (len == 0 || list == null)  
            return null;  
        String min = "";  
        for (int i = 0; i < len - 1; i++) {  
            if (cal(list[i], list[i + 1]) == 1) {  
                min = list[i + 1];  
            } else if (cal(list[i], list[i + 1]) == -1) {  
                min = list[i];  
            } else  
                min = list[i];  
        }  
        return min;  
    }
```

```
    public static int cal(String s1, String s2) {  
        String[] t1 = s1.split("\\.");  
        String[] t2 = s2.split("\\.");  
        int len1 = t1.length;  
        int len2 = t2.length;  
        int len = Math.min(len1, len2);  
        int i;  
        for (i = 0; i < len; i++) {  
            int a = Integer.parseInt(t1[i]);  
            int b = Integer.parseInt(t2[i]);
```

```

        if (a > b) {
            return 1;
        } else if (a < b) {
            return -1;
        }
    }
}
if (len1 > len2) {
    for (int j = i; j < len1; j++) {
        int temp = Integer.parseInt(t1[j]);
        if (temp != 0)
            return 1;
    }
    return 0;
} else if (len1 < len2) {
    for (int j = i; j < len2; j++) {
        int temp = Integer.parseInt(t2[j]);
        if (temp != 0)
            return 1;
    }
}
return 0;
}
}

```

第二题 AC 100% 实现 LRU

可以借助 hashmap

```
package middleLinkCode;
```

```
import java.util.HashMap;
```

```
public class Solution {
```

```

    private Node curH = new Node();
    private Node curT = new Node();
    private int capacity;
    private int size;
    private HashMap<Integer, Node> tempMap = new HashMap<>();

```

```

    private void add(Node node) {
        Node temp = curH.next;
        curH.next = node;
        node.pre = curH;
        node.next = temp;
        temp.pre = node;
    }

```

```
}
```

```
private void del(Node node) {  
    Node p = node.pre;  
    Node q = node.next;  
    p.next = q;  
    q.pre = p;  
    node.pre = null;  
    node.next = null;  
}
```

```
public Solution(int capacity) {  
    curH.next = curT;  
    curT.pre = curH;  
    this.capacity = capacity;  
    size = 0;  
}
```

```
public int get(int key) {  
    Node p = tempMap.get(key);  
    if (p == null)  
        return -1;  
    del(p);  
    add(p);  
    return p.value;  
}
```

```
public void put(int key, int value) {  
    Node p = tempMap.get(key);  
    if (p != null) {  
        p.value = value;  
        del(p);  
        add(p);  
    } else {  
        if (size < capacity)  
            size++;  
        else {  
            Node q = curT.pre;  
            tempMap.remove(q.key);  
            del(q);  
        }  
        Node t = new Node(key, value);  
        add(t);  
        tempMap.put(key, t);  
    }  
}
```

```
    }  
}  
  
private class Node {  
    private int key;  
    private int value;  
    private Node pre;  
    private Node next;  
  
    public Node() {  
    }  
  
    public Node(int key, int value) {  
        this.key = key;  
        this.value = value;  
    }  
}  
}
```