

Week-06

String, StringBuffer

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Program 1:

```
import java.util.*;

public class HelloWorld {
    public static void main(String[] args) {
        Scanner scan = new Scanner(System.in);
        String a = scan.nextLine();
        String b = scan.nextLine();
        StringBuffer ab = new StringBuffer();
        if(a.trim().isEmpty() && b.trim().isEmpty()){
            System.out.print("null");
        }
        else{
            for(int i = 0; i < a.length(); i++){
                if (a.charAt(i) != ' ') {
                    ab.append(Character.toString(a.charAt(i)));
                }
            }
            for(int i = 0; i < b.length(); i++){
                if (b.charAt(i) != ' '){
                    ab.append(Character.toString(b.charAt(i)));
                }
            }
            char[] d = ab.toString().toCharArray();
            Arrays.sort(d);
            for(int i = d.length - 1; i >= 1; i--){
                if(d[i] != d[i-1])
                    System.out.print(d[i]);
            }
            System.out.print(d[0]);
        }
    }
}
```

```
}  
}
```

Program 2:

```
import java.util.*;  
  
class diff{  
  
    char different(char a, char b){  
        if ((int)a != (int)b)  
            return (char)((int)'a' + ((int)a-(int)b) - 1);  
        return a;  
    }  
}  
  
public class Main{  
    public static void main(String[] args){  
        Scanner scan = new Scanner(System.in);  
        diff z = new diff();  
        String q = scan.nextLine();  
        StringBuffer ans = new StringBuffer();  
        StringBuffer temp = new StringBuffer();  
        for(int i = 0; i < q.length(); i++){  
            if(q.charAt(i) == ':'){  
                temp.append(" ");  
            }  
            else{  
                temp.append(Character.toString(q.charAt(i)));  
            }  
        }  
        String h = temp.toString();  
        for(int i = 0; i < temp.length(); i++){  
            if(i%3 == 0){
```

```

        ans.append(Character.toString(z.different(h.charAt(i),h.charAt(i+1))));
    }
}
System.out.print(ans.toString().toUpperCase());
}
}

```

Program 3:

```

import java.util.*;

public class mix{

    public static void main(String[] args){
        Scanner scan = new Scanner(System.in);
        String g = scan.nextLine();
        int n = scan.nextInt(),ones,flag = 0;
        StringBuffer temp = new StringBuffer();
        StringBuffer temp1 = new StringBuffer();
        int space = 0;
        while (n > 0){
            ones = (n %10) - 1;
            for(int i = 0; i < g.length();i++){
                if (g.charAt(i) == ' '){
                    space = space + 1;
                }
                else if(space == ones && flag == 0){
                    temp.append(Character.toString(g.charAt(i)));
                }
                else if(space == ones && flag == 1){
                    temp1.append(Character.toString(g.charAt(i)));
                }
            }
            space = 0 ;
            flag = 1;
            n = n /10;
        }
    }
}

```

```

    }
    rew m = new rew();
    System.out.println(m.r(temp1.toString()) + " " + m.r(temp.toString()));
}
}
class rew{
    String r(String a){
        int le = a.length(),n,q;
        StringBuffer temp3 = new StringBuffer();
        if(le % 2 == 1){
            n = ((int)(le/2));
            q = ((int)(le/2));
        }
        else{
            n = ((int)(le/2)) - 1;
            q = ((int)(le/2));
        }
        for(int i = n;i >= 0;i--){
            temp3.append(Character.toString(a.charAt(i)));
        }
        for(int i = q;i < le;i++){
            temp3.append(Character.toString(a.charAt(i)));
        }
        return temp3.toString();
    }
}

```