## 一、填空题

```
1:假设
String s1 = "Welcome to Java";
String s2 = s1;
String s3 = new String("Welcome to Java");
那么下面表达式的结果是什么?
(1) s1 == s2
                   ____true____
(2) s1 == s3
                  false
(3) s1.equals(s2)
                  true
(4) s2.equals(s3)
                   true
                       ____0_
(5) s1.compareTo(s2);
(6) s2.compareTo(s3);
                      , M,
(7) s1.charAt(0);
(8) s1.indexOf('j');
(9) s1.indexOf("to");
                      -1
(10) s1.lastIndexOf("o",15) _____9___
(11) s1.substring(3, 11); "come to J"_come to (含一个空格)
substring 起始索引包括,结束索引不包括
(12) sl.endsWith("Java")
                 ___true____
(13) s1.startsWith("wel"); _____false____
(14) " We come ".trim(); ______"We come"____
(15) s1.toUpperCase(); ______WELCOME TO JAVA "_____
(16) sl.replace('o', 'T'); "WelcTme tT Java"
2. 如果
StringBuffer s1 = new StringBuffer("Java");
StringBuffer s2 = new StringBuffer("HTML");
假设下列每个语句是独立的,每条语句结束后,写出相应结果
(1) sl.append(" is fun"); sl为 "Java is fun"
                      s1 为__"JavaHTML "______
(2) s1.append(s2);
(3) s1.insert(2, "is fun");
                      s1为 "Jais funva"
                      s1 为 "JHTMLava "
(4) s1.insert(1,s2);
                      c 为_____'v '_____
(5) char c = s1.charAt(2);
(6) int i = s1.length();
                      i 为   4
s1 为   ″J"
(8) s1.delete(1,3);
(9) s1.reverse();
                    s1为____″avaJ "_____
(10) s1.replace(1,3, "Computer"); s1为 "JComputera"
(11) String s3 = s1.substring(1,3);
s3为_____ ava "__ av _______, s1为__ Java"______
(12) String s4 = s1.substring(2);
```

```
3. 假设 StringBuffer s = new StringBuffer("Welcome to JAVA");
将 s 的内容清空的语句是 __s.setLength(0);______
  4.如果
  String s1 = "Welcome";
  String s2 = new String("Welcome");
  String s3 = s2.intern();
  String s4 = "Wel" + "come";
  String s5 = "Wel";
  String s6 = "come";
  String s7 = s5 + s6;
  String s8 = "Wel" + new String("come");
那么下面表达式的结果为:
  (1)s1 == s2 __false____
               __true____
  (2) s1 == s3
               ____true____
  (3) s1 == s4
  (4)s1 == s7 ___true__ false _
  //Wel 为不同的字符串,会重新开辟空间
  (5) s1 == s8 false
  (6)s1.equals(s2) ___true___
  (7) s1.equals(s3) ___true____
  (8) s1.equals(s4) ___true____
  (9)s1.equals(s7) ___true____
  (10)s1.equals(s8) ___true____
  二、单项选择题
  1.可以获取字符串 s 的最后一个字符的表达式是 c 。
  (A)s.length()
  (B)s[s.length() - 1]
  (C) s.charAt(s.length() - 1)
  (D) charAt(s, length(s))
  2. 下面程序
```

class C {

```
public static void main(String[] args) {
          String s = "null";
          if(s == null)
             System.out.print("a");
          else if(s.length() == 0)
             System.out.print("b");
          else
             System.out.print("c");
       }
   }
   的输出为____C____。
   (A)a
                                       (B)b
   (C)c
                                       (D) null
   3. 下面的程序
   class C {
      public static void main(String[] args) {
          String s = "Welcome to ";
          concat(s);
          System.out.print(s);
      public static void concat(String s) {
          s += "Java";
       }
   }
   的输出为____B_ A _。
   (A) Welcome to
                                   (B) Welcome to Java
   (C)编译错误
                                   (D)运行时异常
  三、编程题
   1:编写程序,从控制台或对话框任意输入一个英文字符串,统计字符串中每个英文字
   母出现的次数并输出到控制台(大小写不敏感)。
import java.util.Scanner;
import java.lang.String;
public class main {
   public static void main(String[] args){
       Scanner input = new Scanner(System.in);
       System.out.println("Enter a String:");
       String str = input.next();
```

```
char[] arr = str.toCharArray();
         int[] count = new int[26];
         int i=26;
         for(char cur : arr){
              if(cur>=65&&cur<=90){
                  i = cur - 65;
              }else if(cur>=97&&cur<=122){
                  i = cur - 97;
              }
              if(i>=0\&\&i<26){
                  count[i]++;
              }
         }
         for (int t = 0; t < 26; t++){
              if(count[t]!=0){
                   char now = (char)(t+65);
                   System.out.println(now + ":" + count[t]);
              }
         }
    }
}
    2:假设一个车牌号码由三个大写字母和后面的四个数字组成。编写一个程序. 随机生
    成 5 个不重复的车牌号码。
import java.util.ArrayList;
import java.lang.String;
import java.util.Random;
public class main {
    public static void main(String[] args){
         ArrayList<String> list = new ArrayList<String>();
         String now;
         while (list.size()<5){
              now = random.randomToProduce();
              if(!list.contains(now)){
                   list.add(now);
              }
         }
         for(String cur:list){
              System.out.println(cur);
         }
    }
}
```

```
class random{
    static String randomToProduce(){
        StringBuffer current = new StringBuffer("");
        for(int i=0;i<3;i++){
            current.append((char) ((new Random().nextInt(26)) + 65));
        }
        for (int i=0;i<4;i++){
            current.append(new Random().nextInt(10));
        }
        return current.toString();
    }
}</pre>
```