

Computer Science 12 AP

Reading Code – Strings Methods

```
//1
String word = "hello there mom";
System.out.println( word.substring(4,8) );           o_th
```

```
//2
word = "hello there mom";
String newword = word.substring(6) + " " + word.substring(0,5);
System.out.println( newword );                     there_mom_hello
```

```
//3
word = "hello there mom";
int x = 8; //or userInput
String s = word.substring(x, x+1);                 e
System.out.println(s);
```

```
//4
word = "The cat jumped over the fence"; //watch the range of the loop here!
int count=0;
for(int i=0; i<word.length()-3; i++){
    String m = word.substring(i, i+1);             5 (does not include the last e)
    if (m.equals("e") == true)
        count++;
}
System.out.println(count);
```

```
//5
word = "hi there";
if (word.compareTo("z") > 0)
    System.out.println("Ball");                   Dog
else
    System.out.println("Dog");
```

```
//6
word = "volley ball";
int y = word.indexOf(" ");
word = word.substring(0,y) + word.substring(y+1); volleyball
System.out.println(word);                       (good find and remove space routine)
```

```
//7
word = "Mr. Toughguy";
int p = word.indexOf(".");
String name = word.substring(0,p+1) + " " + word.substring(p+2, p+3);
System.out.println(name);
```

Mr. T

```
//8
word = "jeaovmzfv";
int c = 0; String st;
do{
    st = word.substring(c, c+1);
    if (st.compareTo("m") > 0)
        System.out.println(st);
    c++;
}while( c < word.length() );
```

OVZV

```
//9
word = "Geireles Roceek";
String phrase=""; String letter;
for (int i=0; i<word.length(); i++){
    letter = word.substring(i,i+1);
    if (letter.equals("e") == false)
        phrase = phrase + letter;
}
System.out.println(phrase);
```

Girls Rock

```
//10
String number = "54321";
String newnumber = "";
for (int i=number.length()-1; i>=0; i--){
    newnumber = newnumber + number.substring(i, i+1);
}
System.out.println(newnumber);
```

12345 (good reverse routine)

```
//BONUS. Describe in words what this segment does...
String alpha = "abcdef";
word = "";
int pos;
Random R = new Random();
for(int i=1; i<=6; i++){
    pos = R.nextInt( alpha.length() );
    word = word + alpha.substring(pos, pos+1);
    alpha = alpha.substring(0,pos) + alpha.substring(pos+1);
}
System.out.println(word);
```

Creates a 6 letter word randomly using each of the abcdef only once.