­­ **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(" "); **volleyball**

word = word.substring(0,y) + word.substring(y+1); **(good find and remove space routine)**

System.out.println(word);

//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; **ovzv**

do{

st = word.substring(c, c+1);

if (st.compareTo("m") > 0)

System.out.println(st);

c++;

}while( c < word.length() );

//9

word = "Geireles Roceek";

String phrase=""; String letter; **Girls Rock**

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);

//10

String number = "54321"; **12345 (good reverse routine)**

String newnumber = "";

for (int i=number.length()-1; i>=0; i--)

newnumber = newnumber + number.substring(i, i+1);

System.out.println(newnumber);

//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.**