­­ **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.**