AP Computer Science A
Exam Set 14E

Name _____ Period _____

1. Refer to the code below to answer the following

```
String s = "Get here Thanksgiving!";
String m = "er";
int j = 8, z = 99;
```

(a)
`int k = s.indexOf(m);`
`System.out.println(k);`
	5

(b)
`int k = s.indexOf('T');`
`System.out.println(k);`
	9

(c)
`char p = s.charAt(6);`
`System.out.println(p);`
	r

(d)
`int k = s.indexOf(z);`
`System.out.println(k);`
	-1

(e)
`int k = s.indexOf('g', j);`
`System.out.println(k);`
	15

(f)
`char p = s.charAt(z - 90);`
`System.out.println(p);`
	T

(g)
`int k = s.indexOf(m, 15);`
`System.out.println(k);`
	-1

(h)
`int k = s.indexOf(z + 2, 4);`
`System.out.println(k);`
	5

(i)
`boolean k = s.contains(m);`
`System.out.println(k);`
	true

(j)
`String s2 = "     JAVA      ";`
`String k = "!" + s2.trim() + "!"`
`System.out.println(k);`
	!JAVA!

(k) `System.out.println(m.compareTo(s));`	**30**
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2. The Alphabetize class below, alphabetizes three words. Consider the following examples. Write the Alphabetize class.

Values of Strings s1, s2, and s3 before	**Values of s1, s2, and s3 after**

`String s1 = "cat";`
`String s2 = "car";`
`String s3 = "dog";`
	`String s1 = "car";`
	`String s2 = "cat";`
	`String s3 = "dog";`

`String s1 = "dog";`
`String s2 = "cat";`
`String s3 = "car";`
	`String s1 = "car";`
	`String s2 = "cat";`
	`String s3 = "dog";`

```
public class Alphabetize{

     public static void main(String args[]){

      //check if s1 is last
      if(s1.compareTo(s2)>0 && s1.compareTo(s3)>0){
            temp = s3;
            s3 = s1;
            s1 = temp;
      }

      //check if s2 is last
      if(s2.compareTo(s1)>0 && s2.compareTo(s3)>0){
            temp = s3;
            s3 = s2;
            s2 = temp;
      }
      //compare s1 and s2
      if(s1.compareTo(s2)>0){
            temp = s2;
            s2 = s1;
            s1 = temp;
      }
      System.out.println(s1 + " " + s2 + " " + s3);









  }

}
```

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3. The Crypto class, encrypts messages by replacing all c's with "c'mon" and all o's with "ouch!". The final encrypted message is stored in a variable called "encrypted". Consider the following examples,

String msg	**String encrypted**
Encrypto my message	Enc'monryptouch! my message
Get off the couch!	Get ouch!ff the c'monouch!uc'monh!

Write the Crypto class below,

```
public class Crypto{

     public static void main(String args[]){

      System.out.println("Type a message to encrypt: ");
      Scanner s = new Scanner(System.in);//Gets the message from the user
      String scan = s.nextLine();
      Scanner msg = new Scanner(scan);//
      String encrypted = "";



          while(msg.hasNext()){
                 String word = msg.next();
                 for(int l = 0; l < word.length();l++){
                       if(word.charAt(l)=='c')
                             encrypted += "c'mon";
                       else if(word.charAt(l) == 'o')
                             encrypted += "ouch!";
                       else
                             encrypted += word.charAt(l);
                 }
            encrypted += " ";//adds space between words

            }
            System.out.println(encrypted);









  }

}
```

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