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| | |
|---|---|
| 1.   Refer to the code below to answer the following<br><br>    String s = "Get here Thanksgiving!";<br>    String m = "er";<br>    int j = 8, z = 99; | |
| (a)<br><br>int k = s.indexOf(m);<br>System.out.println(k); | |
| (b)<br><br>int k = s.indexOf('T');<br>System.out.println(k); | |
| (c)<br><br>char p = s.charAt(6);<br>System.out.println(p); | |
| (d)<br><br>int k = s.indexOf(z);<br>System.out.println(k); | |
| (e)<br><br>int k = s.indexOf('g', j);<br>System.out.println(k); | |
| (f)<br><br>char p = s.charAt(z – 90);<br>System.out.println(p); | |
| (g)<br><br>int k = s.indexOf(m, 15);<br>System.out.println(k); | |
| (h)<br><br>int k = s.indexOf(z + 2, 4);<br>System.out.println(k); | |
| (i)<br><br>boolean k = s.contains(m);<br>System.out.println(k); | |
| (j)<br><br>     String s2 = "     JAVA      ";<br>     String k = "!" + s2.trim() + "!"<br>System.out.println(k); | |
| (k)<br><br>System.out.println(m.compareTo(s)); | |
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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";<br>String s2 = "car";<br>String s3 = "dog"; | String s1 = "car";<br>String s2 = "cat";<br>String s3 = "dog"; |
| String s1 = "dog";<br>String s2 = "cat";<br>String s3 = "car"; | String s1 = "car";<br>String s2 = "cat";<br>String s3 = "dog"; |

```java
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,

```java
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);

















    }
}
```

}