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| 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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| 1. 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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| 1. 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);**  }  } |