/Users/Zachi_Mac13in_1/Dropbox/zJava/00_AllGradeScope/0_KStringDemoInClass/MyWork/StringDemo/src/KString.java

```
1
2 public class KString {
3
4    private String myString ;
5
6
7    // constructor
8    public KString() {
9       myString = "";
10   }
11
12   public KString(String str) {
13      myString = str;
14   }
15
16   // hyphen a string
17
18   public String KHyphen() {
19   String str="";
20
21   if (myString.length() <=1 ) return myString;
22
23   str = str + myString.charAt(0);
24
25   for (int ii=1; ii<myString.length(); ii = ii+1) {
26      str = str + '-' + myString.charAt(ii) ;
27   }
28
29   return str;
30
31   }
32
33   public String toString() {
34      return myString;
35   }
36
37
38
39   // DO NOT show: Hyphen every other one:
40   // Write a function that returns a string where a hyphen is inserted every two
41   // characters.
42   // "ABCDE"  -->  "AB-CD-E"
43   // Special cases
44   // "AB"  -> "AB"
45   // "A"   -> "A"
46   // ""    -> ""
47
48   public String KHyphen2() {
49      String str="";
50
51      if (myString.length() <=2 ) return myString;
52
53      str = str + myString.substring(0,2);
54
55      for (int ii=2; ii<myString.length(); ii = ii+1) {
56         if (ii%2 == 0)
57            str += "-";
```

```
58          str = str + myString.charAt(ii) ;
59      }
60
61      return str;
62
63  }
64
65
66  public boolean isPalindrome()
67  {
68      boolean pali = true ;
69
70      /*
71      for (int ii=0; ii<myString.length() ; ++ii) {
72          if (myString.charAt(ii) != myString.charAt(myString.length()-1-ii))
73              pali = false;
74      }
75      */
76
77      // Two ways to improve:
78      // 1. Search only to half way
79      // 2. break when found bad char
80
81      for (int ii=0; ii<myString.length()/2 && pali ; ++ii) {
82          if (myString.charAt(ii) != myString.charAt(myString.length()-1-ii))
83              pali = false;
84      }
85
86
87
88      return pali;
89  }
90
91
92
93
94 }
95
```