**AP Computer Science - String Conversion Quiz**

 String st = "Alexander the Great";

 String st2 = "w" + st.substring(8, 12) ;

 st2 = st2.replace(' ', 'a');

 System.***out***.println(st2);

The following lines of code converts Aladdin into a completely different word. Can you figure out what it is? fill out the new version of the string after each line of code.

String st = "Aladdin";

st = st.toLowerCase(); //step 1

st = st.replace('n', 't'); //step 2

st = st.substring(st.length()-2) + st.substring(0, st.length()-2); //step 3

st = st.replace("dd", "ch"); //step 4

st = (**char**)119 + st; //step 5

st = st.substring(0,3) + st.substring(6, st.length()) + st.substring(3, 6); //step 6

st = st + (**char**)('d' + st.indexOf("tch")); //step 7

st = st + st.charAt(2); //step 8

st = st.replace("al", "cr"); //step 9

System.***out***.println(st);

|  |  |
| --- | --- |
| Step | Resulting String |
| Original String | Aladdin |
| 1 |  |
| 2 |  |
| 3 |  |
| 4 |  |
| 5 |  |
| 6 |  |
| 7 |  |
| 8 |  |
| 9 |  |

ending word 🡪

Part II. Create a word conversion of your own. Both the start and ending Strings must be known words. You must use the following String methods at least once each as part of your conversion:

length() substring() indexOf() replace() charAt() toUpperCase() or toLowerCase()

Feel free to combine method calls into a single line of code for an added challenge.

Ex: st = st.toUpperCase().substring(st.length() - st.indexOf("on"));

Use the following table to keep track of the String after each step of the conversion.

Starting word

|  |  |  |
| --- | --- | --- |
| Step | Code | Resulting String |
| Original String |  |  |
| 1 |  |  |
| 2 |  |  |
| 3 |  |  |
| 4 |  |  |
| 5 |  |  |
| 6 |  |  |
| 7 |  |  |
| 8 |  |  |
| 9 |  |  |

Ending Word