

Northeastern Illinois University
CS303A, Object-Oriented Programming and Data Structures
Homework: Strings

Problem 1:

Complete the `isExactReverse()` method in `Reverse.java` as follows:

- The method takes two Strings `x` and `y` as parameters and returns a `boolean`.
- The method determines if the String `x` is the exact reverse of the String `y`.
- If `x` is the exact reverse of `y`, the method returns `true`, otherwise, the method returns `false`.
- Other than uncommenting the code, do not modify the main method in `Reverse.java`.
- Sample runs provided below.

Argument String x	Argument String y	Return Value
"ba"	"a"	false
"desserts"	"stressed"	true
"apple"	"apple"	false
"regal"	"lager"	true
"war"	"raw"	true
"pal"	"slap"	false

Problem 2:

Complete the `seperateDuplicateChars()` method in `SeperateDuplicates.java` as follows:

- The method takes a `String str` as a parameter and returns a new `String`.
- The returned `String` should be exactly like `str`, but any identical characters that appear in a consecutive way must be separated by hyphens “-”.
- You may **ONLY** use the following methods from the `String` class: `charAt()`, `substring()` and `length()`.
- Other than uncommenting the code, do not modify the main method in `SeperateDuplicates.java`.
- Sample runs provided below.

Argument String str	Return String
“Hello”	“Hel-lo”
“Bookkeeper”	“Bo-ok-ke-eper”
“Yellowwood door”	“Yel-low-wo-od do-or”
“Chicago Cubs”	“Chicago Cubs”

What to turn in:

There should be 2 **.java** files(Reverse.java and SeperateDuplicates.java), put all those files into a zip file and name it <YourFirstName_YourLastName>.zip, submit the zip file into the Dropbox on D2L.

How to zip multiple files?

On Windows: Select all the files > right click > Send to > Comprised File

On Mac: Select all the files > Click/Tap with two fingers > Compress Items