Lab 15

Instructions: Complete the steps below. Be sure to upload a copy of all your source code (.java) files to the link on Brightspace by its deadline, so that you can receive credit for this lab.

MyString1.java: As you know, the String class is provided in the Java library.

Provide your own UML diagram in iDraw and Violet, and implementation for the class (name the new class MyString1) with a

- char[] for storing the String characters and the following methods:
- public MyString1(char[] chars);
- public char charAt(int index);
- public int length();
- public MyString1 substring(int begin, int end);
- public MyString1 toLowerCase();
- public boolean equals(MyString1 s);
- public static MyString1 valueOf(int i);
- public MyString1[] split(String s);

Note: do not use the methods with the same name from the java API, but implement them using the private char[] storing the characters of the string.

Grading Guidelines: This lab is graded on a scale of **0-3 points**, assigned as follows:

- **0 -** The student did not attend the lab,
- **3 -** The solutions are complete OR the student spent the entire lab solving the required lab problems (in this case, the students may not arrive at the lab after the lab started and may not leave until the lab ends).