CSIT 503 HW6
Topic: Dynamic Programming II

Dr. Boxiang Dong

1 Problem Description

Instructions. You are provided one skeleton program named *LCS.java*. The source files are available on Canvas in a folder named *HW6*. Please modify the skeleton code to solve the following tasks.

- Task 1 (100 pts). Implement the *lcs_length()* function as discussed in Lecture 11.
- **Note:** You **should not** return the double-array b and c as in the pseudocode. Instead, return the length of the longest common subsequence.
- **Hint:** To get the i-th character in a string s, use *s.charAt(i)*. For example, the code

  String s = "XYZ";

  System.out.println(s.charAt(1));

  prints out *Y*.

2 Submission Guideline

1. Work individually.
2. Please directly insert your code in the appropriate place in LCS.java.
3. Create a zip file of your .java source programs and submit it on Canvas on time A late penalty of 10 points for each late day applies. Any late for more than three days receives zero automatically.