

Odalys Rodriguez
Data Structures and Algorithms II
Project 5
User's Manual

Program Description:

Assume that we are implementing a program to help us study similarity among organisms based upon comparison of gene sequences. In order to do this, we will implement the dynamic programming version of the LCS algorithm in two different ways *in one program*.

LCS Class:

This class has all the functions required to compute the LCS algorithm

The Main File:

Outputs the values to the console

Setup and Compilation:

1. Download and unzip the submission from eLearning on a Linux box in the multi-platform lab.
2. The submission includes:
 - lcs.hpp
 - lcs.cpp
 - main.hpp
 - MakeFile
 - README
- 3.Environment: This program has been tested in the multi-platform lab and will run there.
- 4.Compiling. This program includes a `Makefile` at the command line in Linux, type `make all`. The program creates the executable `main` To run the program make sure to use the command `./main`

Running the program:

User input: No user interaction

Output: All output goes to the console.

When the program runs, it will display as output:

Length of the common sub str: 794

Common str:

dfdsaassdsfdfsasfdasfdfsasdddsafsdssadsfsasdfsdfsassdsfdfsdfssdsdssdfdasfd
asddsasfdsaassdsfdfsasfdasfdfsassdsasdddsasdsadfdadsasddssasdsdfdsass
dsdsafsdssdsafsd sdfsaassdsdssdfdasfdasddsasfdsaassdsfdfsasfdasfdfsasdd
sdsafsdssadsfsasddsfdasdddsfdfsdfdasfdasfdasfdfsadsdsafsdssadsfsasdfsfd
sassdsfdfsdfssdsdssdfdasfdasddsasfdsaassdsfdfsasfdasfdfsasdddsafsd sdfsas
sdfdsasfdasfdfsasdsdsafsd sdfsassdsfdfsasddsfdfsasddsfdfsdfsaassdsfdfsasfd
asfdfsasdddsafsdssadsfsasddsfdfsasddsfdfsdfdasfdasfdasfdfsadsdsafsdssad
sfsasdfsdfsassdsfdfsdfssdsfdfsasfdasfdfsasdddsasdsfdfsasfdasfdfsasadsasddsf
dsasdsasfdfsasasfdasfd fdfsasasdsdsafsdssadsfsdafsd sdfsdasasadssdsdfsfdf
dsasfdasfdfsasfdsaassdsfdfsasfdasfdfsasdddsafsdssadsfsdafsd sdfsdasasa
dssdsdfsfdfsasfdasfd fdfsasfd fadsdsafsdssadsfsdafsd sdfsdasassdsfdfsasfd fda