Assignment 3: Dynamic Programming (B1)

Section B1

Given two strings s and t with lengths m and n respectively, and match, mismatch and gap scores, implement dynamic programming algorithms to find optimal global sequence alignment and local sequence alignment of the two strings. Both algorithms must run time O(mn).

For details on the algorithms and sample input-output, please see https://en.wikipedia.org/wiki/Needleman%E2%80%93Wunsch_algorithm

Input format:

The first line of input file will contain string lengths and the scores separated by spaces. The next lines will contain two strings.

7 8 1 -1 -1 GCATGCT GATTACAA

Due: 15/10/2017

Apologies for the late announcement. Assignments for other sections will be uploaded soon.