

Problem 1: Calculate an optimal (minimal) global alignment for strings canon and gannon with parameters: match -2, mismatch 1, gap 5. Show DP table and final alignment.

Problem 2: (a) Do we get the same answer with mismatch penalty 10? **(b)** Do we get the same answer with mismatch penalty 100? **(c)** What is the smallest mismatch penalty that gives alignment in (b)?

Problem 2: Calculate an optimal (minimal) *local* alignment for the same strings with the Same parameters as Problem 1. Show DP table and final alignment.