Practice Problems

The problems in this section are not to be submitted. They are to help you understand the material, and some will appear on exams.

- Exercise 17.2-1, p 336 (in the second edition: Exercise 16.2-1).
- Exercise 17.3-1, p 344 (in the second edition: Exercise 16.3-1, p 392).
- Exercise 17.3-2, p 344 (in the second edition: Exercise 16.3-2, p 392).
- Exercise 17.3-8, p 344 (in the second edition: Exercise 16.3-8, p 392).
- Consider the two sequences:
  X: AACGTTACCGATATATTT
  Y: CAGTACGATGT

  Find:
  1. longest common subsequence (algorithm is in the textbook)
  2. the pairwise alignment with no penalty for gaps (see the webpage, titled “Dynamic Programming Tutorial”).
  3. the pairwise alignment with a penalty for gaps (see the webpage, titled “Advanced Dynamic Programming Tutorial”)
Graded Problems

These problems will be graded and should be submitted, following the guidelines on the webpage.