

**Sequence Analysis 3  
Summer 2024**

**Exercises**

**Number 12, Discussion: 2024-July-18**

1. Preliminary: what is the space and time complexity of the Smith-Waterman algorithm?
2. Compute the FASTA score for  $x = \text{"assigningsequences"}$ ,  $y = \text{"alignmentofsequences"}$ , and  $k = 3$ .
3. Write the pseudo code to compute the FASTA score from two strings.
4. What is the complexity of the FASTA score computation?