Class Exercise:

Align the following sequences: TGGACGAATA and TCGACCATA

Use an arbitrary gap penalty of -1 per base

Use the simple identify matrix with a score of 2 for a match and −1 for a mismatch.

- 1. Work through the Dynamic Programming solution (Needleman-Wunsch)
- 2. What is the score of the alignment?
- 3. How many alignments give this score?
- 4. Map one of these alignments.

	Т	G	G	A	С	G	A	A	Т	A
Т										
C										
G										
A										
С										
С										
A										
Т										
A										