

Homework 1, Problem 2

Sequences:

x = TAGGACATG

y = CACGTACG

Scoring Scheme:

Identity: +4

Transition: -2

Transversion: -3

Gap: -8

		T	A	G	G	A	C	A	T	G
	0	-8	-16	-24	-32	-40	-48	-56	-64	-72
C	-8	-2	-10	-18	-26	-34	-36	-44	-52	-60
A	-16	-10	2	-6	-14	-22	-30	-32	-40	-48
C	-24	-18	-6	-1	-9	-17	-18	-26	-34	-42
G	-32	-26	-14	-2	3	-5	-13	-20	-28	-30
T	-40	-28	-22	-10	-5	0	-7	-15	-16	-24
A	-48	-36	-24	-18	-12	-1	-3	-3	-11	-18
C	-56	-44	-32	-26	-20	-9	3	-5	-5	-13
G	-64	-52	-40	-28	-22	-17	-5	1	-7	-1

Alignment:

TAGGACATG

CACGT-ACG

Score: -19