

Tanner Whitlock
SECTION 002
HW #14

1.

	-	T	A	C	G	C	A
-	0	5	10	15	20	25	30
A	5	1	2	7	12	17	22
T	10	2	2	3	8	13	18
G	15	7	3	8	0	5	10
C	20	12	8	0	5	-3	2
C	25	17	13	5	1	2	-2

- A T G C C
T A C G C A

↑

OPTIMAL ALIGNMENT

OPTIMAL COST: -2

2.

	0	1	2	3	4	5	6	7	8	9	10
\$1	1	0	1	1	1	1	1	1	1	1	1
\$7	2	0	1	7	8	8	8	8	8	8	9
\$11	5	0	1	7	8	8	11	12	18	19	19
\$21	6	0	1	7	8	8	11	15	25	28	29
\$24	7	0	1	7	8	8	11	21	31	32	39

OBJECTS: 1, 2, 7
OPTIMAL LOAD VALUE: \$39