

Sequence 1: TATAGC

Sequence 2: GTTATC

	T	A	T	A	G	C
G	0	-2	-4	-6	-8	-10
T	-2	-1	-3	-5	-7	-9
T	-4	0	-2	-4	-6	-8
A	-6	-2	0	-2	-4	-6
T	-8	-4	0	2	0	-2
C	-10	-6	-2	0	2	0

Using a match score of +2, a mismatch score of -1, and a gap score of -2. Fill in the table and translate it into an alignment.

Please submit your completed answer via **gradescope**. This should be titled "02. Global Alignment HW Week2". You can submit this document as a PDF for a photo of a separate page with your completed alignment matrix along with your aligned sequences and their optimal score.

The optimal score: 3.

Aligned
Sequence:

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

Score:
 $3 \times 2 - 3 = 3$