Gotoh (Local) Unit Tests

Hint: Many test values are taken from project Algorithms for Bioninformatics of Alexander Mattheis or the lectures.

Test 1

Input

Sequence A: CCGA Sequence B: CG

Gap Opening: -3

 $g(k) = -3 - k \cdot 1$

Enlargement: -1

Match: 1
Mismatch: -1

Output

		С	С	G	Α
	-	-∞	-∞	-∞	-∞
С	-	-4	-4	-4	-4
G	-	-3	-3	-4	-4

		С	С	G	Α
	0	0	0	0	0
С	0	1	1	0	0
G	0	0	0	2	0

		С	С	G	Α
	-	-	-	-	-
С	-∞	-4	-3	-3	-4
G	-∞	-4	-4	-4	-2

Seq1 CG **

Seq2 CG

Test 2-4: Simulation of Smith-Waterman Tests by setting gap opening to 0.