

Practice Sheet

(Disclaimer: This is just a practice tool, do not consider it as any form of suggestion/short syllabi)

GLOBAL AND LOCAL ALIGNMENT (Try with different combination of scores) - Sequence 1: AGCTGTAAGT Sequence 2: AGCTGCA - Sequence 1: ATCGTACGGG Sequence 2: ATCGATCG - Sequence 1: GGTACAGTAC Sequence 2: GATACAGT - Sequence 1: ACGTGA Sequence 2: ACTGGAAGT - Sequence 1: CAGTACGGG Sequence 2: GATACG - Sequence 1: TTGCCAACTG Sequence 2: TCGCGAAGT - Sequence 1: TAACTG Sequence 2: TCTGAGT	Suffix array, Suffix tree, Keyword Tree - ATCGGCTAGG - GCTAGCAT - TACGATCGGAAA - CGATGCTTGA - GATCGATCGA - ATGCTAGGCT - TGCATCGGTA - GATGCTAGC - TACGTAGCTGGCT - CAGTG Burrows Wheeler Transform and LF Mapping - ATGCGTACG - INTERCONTINENTAL - GATCGTACGAG - TGCATGCTAG - CTAGGCTAGG - ANTIDISESTABLISHMENTARIANISM - GACTAGCTAG - ATGATCGGTC - CGATGCTAGC - UNOBJECTIONABLE
FASTA (try a variation for value of K)	
Sequence 1: ATCGGCTAGG Sequence 2: AGCTGCA Sequence 1: REMARKABLE Sequence 2: UNBREAKABLE Sequence 1: AGCTAGG Sequence 2: GCTAGC Sequence 1: INFORMATION Sequence 2: FORMATION Sequence 1: GATGCTA Sequence 2: ATGCAT	Sequence 1: CONSIDERATION Sequence 2: EXCITATION Sequence 1: ACTGCTAG Sequence 2: GCTAGCTA Sequence 1: ORGANIZATION Sequence 2: AGONIZATION Sequence 1: ACGTATCG Sequence 2: ACTGATCG Word 1: ANTICIPATION Word 2: PARTICIPATION