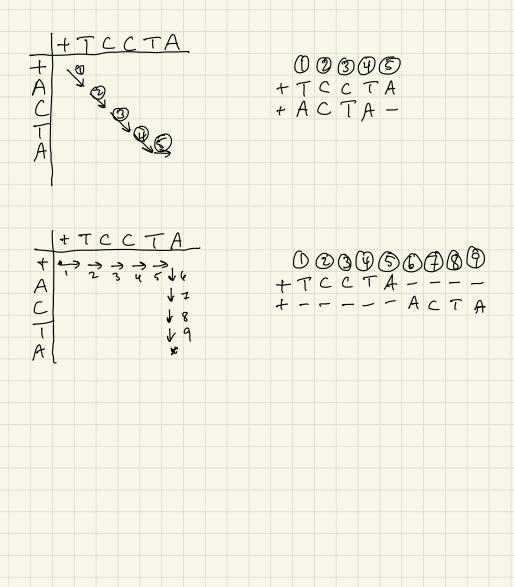
Needleman - Wunsch Alg	onthan
Alignment Matrix	
- Representation of	possible alignments
- Path in the alig the upper left c right corner repr	orner to the lower esents a possible
-Path rules: - Made up of a - Step can be:	
3) diagonally	down + right
- Every step in a adding another alignment	path conteponds to I Symbol to the
TCCTA	
TCCTA + D, Q A C T A	023456 tTCCTA- t-AC-TA
TA	



Fill in alignment matrix w/ prefix alignment costs - every step on an alignment has a ost for every cell in the alignment matrix re cord the minimum cost of alignment up to that cell— - cost will be determined by the cost form $w(a_i, b_i) = \begin{cases} 0 & \text{if } a_i = b_i \\ 1 & \text{otherwise} \end{cases}$ 1 Cost start @ 0 HTCCTA + 01,2345 A 11,2344 C 22 14,234 T 32 22 23 A 43 3 3 3 3 2 2) Cost @ position i,j = Cost@ij-1 + gapcost

min 2 cost@i-1,j + gapcost

cost@i-1,j-1 + match/

misman cost (3) Cost in lower right corner will be the minimum and b + TCCTA +TCCTA TTCCTA + - ACTA + AC-TA +A-CTA