Sequence Alumen 1 k vio a cuay of armonging thuns (w.) more in ingrement,
of characher to adentify negrous of surrecting. Seguence: Can the Jamen cas order of Swing of Justiens.

Ly There seguena can the DNA, RNA, Protein Dynamic programming: . The prioring breautry down the Problem ins subproblem. Stores us neure of the subproblem. under const use subproblem. Compung Same verues esgais and againes Dynamic programmy cui not be insput culien shore au 10 Common (overlaping) sub problems. Needleman - Wansch Algoium -, This calgories with anton pranavas the dynamic Algorius parciculigm when and proud it ophimal saluron - and Sequence Alignment: The process of alumens of remodelies

I denuter white will making the runky of moudes

millendille. and one and number of motionalder, and gap-

The calgorium adults adepus a neurena vaccinois
asture and prompte can neward for a nucleorate
Charache main, and penalty for a missimable.
Result of Sequence Alignment:
when we are given huo sequences. No own of
Me sequence solignment cuis be. Consumo 9
(1) Ansensium Ideleinen (undel)
i) mimailes
i) Penfeur mans.
eample - perfeurain.
Talcacc ATTO MINIMALIA
merines / pponoches
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Les por plous Les global Les local
L) local
Stickerad representin + relation
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I was a dable.

- doemot quaning

Quartikain:
a constantion of the best alignment between it sequences
nlobalsequence: The best alignment ones the entire length of
adres suivide :- il une sequeu are of Same longh,
and a somipaux degree of Sumlaing
Mnoughour -
dotal seguence: Compare et Showhere proposional of
Sequences
Les rules suints: - when shows lengt y Suntain and
depoier in Shoring length.
Mon de Ouralités? = Antroduced a Storry schema - > are auti have can sontreduced a Storry schema - > are auti have can
alignenen scone - > goodnen y alignmen.
Substitution Matrix.
20 mens alies Contain ACSCT. (aim calso Cantain
a Scown function (d)
L3 mans -> 2 A 2 -1 -1
Ly many $\rightarrow 2$ Mis-many $\rightarrow -1$ $C = \begin{bmatrix} 2 & -1 & -1 & -1 \\ -1 & 2 & -1 & -1 \\ -1 & -1 & 2 & -1 \end{bmatrix}$ $C = \begin{bmatrix} -1 & -1 & 2 & -1 \\ -1 & -1 & 2 & -1 \end{bmatrix}$
9 -1

hay! -> consecuent van of spaces is an alignmen Cureinor (4) deleviou). Mag penaly: -> défies a Sone us gues Overne un délieur H -1/1 (9) 0 for any dynamic puegrams, une need so define a recunara relation. $T(\bar{u}_{j}) = \max \left\{ T(\bar{u}_{-1}, \bar{j}_{-1}) + \sigma(S_{1}(\bar{u}), S_{2}(\bar{j})) \right\}$ $T(\bar{u}_{-1}, \bar{j}) + gap penuly$ $T(\bar{r}_{j}, \bar{j}_{-1}) + gap penuly$ anulunus. Fig. -> Fig. $\mathbf{F}(0,0)=0$ T(\$10) = F(\$1-1,0) - gap penny T (0,5) = T(0,5-1) - gap penly. Termination: Bothom ugue. Sheps anvoled:

4) Shop:) Fill up the matrix takele (T) any the hecuralen relation.

-> Shape. Thateban M marine do wom du you a best volgnment.

Sequenes : 91= A TOGTO SL= ATCAT Table Intillapain; v=0 v=1 J=1 ばめ 0 0 j=3 0 0 3 Ð 2 2 0 Alimson = 9/1 2 2 =1 Shep-1=> The value of T(010) is zero-) Sharing Condition = ship 2 = s nap penaly -> 0 = Sheps => match =>+2, mistreels = -1 a door for Shard danger // - Muchubu. SI= Tagta SZ = ATCH T Stone = now he of oracles + new of mine = 3(x) + -1 +o = 5/1

lenforman ; N-w-)approde -> n2/1 - accent all pomble combrain -Nº L 2n cn //
N-w forw eller cacer all pomple eleme one by

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