

Las Max Subsequence: Choday au, az - . an Tim day con gân lier têp car P(trão ton MAX. MaxSubseg (a, L, R) If L=R'then retu a[L]; ML= Max Shbeg(a, L, m) MR = Max Eub seg (a, mt 1, R) MLR=MaxLeft(a,L,m) +Max Right (a, m+ 1, R) retur MAX (ML, MR, MLR);

Max Left (a, 1,1) res = -60; S=0 for k=j downto i do [S=S+a[k]; ig S > res than res = S; retur res; Max Righ (a, i,). - nes=-0; S=0 gor k=i to i do S=S+ a[4]; is S> res than res= 5; retur resi

Dynamic Programming (aughouch Dong) - DTN Baitoan (car BT con plus)

BT con mon nhat - opai true tiép OXD, CT QHD (CTIMY hai)
The hien sir plus feuror, 1 BT con
vas cor st con who has Touthof loi grai care BT con > chote la grai Bi x with phet 85 BT can > opiai (Bottom Up) lun solution tracq BN de tranhlag lai Vier gran BT con nhien lain (De gruy co

Top Down - DE gruy co who Ham de gruy giai 1 BT con you than so san

Max Sub Sequence Si: troysé ano daycan MAX ma day anaz...ai (cet there ten, ai (i=1,2,--,n) · BT con who what S[1]=a[1]. •CT $\alpha H \oplus : S_i = S S_{i-3} + \alpha_i$, with S α_i , $S_{i-1} \in O$

Max Subseg DP(a[1..n]) S[1] = a[1]; res=S[1]; 10 i= 2 -> n do 977 5[i-1]>0 then | S[i]=S[i-1]ta[i]; ig Stil) > res then reg = Stilj return resi

Ky thuất Truy vet. DIN Cantone du lien lui jet må khi ta. ra QD lua chon dé XD láigiai dro BTcon-BT con Opz ghinhan
Opz ato his chan Duy cân true vét de truy ra l'éri giai

Trace[i]: chi số j của phân từ díng truise a [i] tray day con tay dans daintai kt tai a [i]. a, az. -- . [ai], -- . [ai] MaxInc Subseq Trace (a[1.n]) S[1] = 1; res = \$[1]; Trace[2] = 0; for i=2 to n do 0 5 5 5 1 5 Trace[i]=0; for j=1 -> i-1 do ij atj] < a[i] then StiJ < StiJ+1 than

StiJ = StiJ+1;

TracetiJ=j;

If res < StiJ then [last = i;

retur res, trace;

p sendo co de Day con tan dan plainhat S[1] = a[1]; 100 i=2→n do of SciJ= 1; res=S[1]; for $j=1 \rightarrow j-1$ do -ij afj < ati] then -1i Sti] < SEj] + 1 th STiJ < STj J + 1 then 1,2,4,7,12 · D/N Baitour con S[i]=S[j]+1; Si do dai day con dai day ayazı ... a i ket thire tai ai result = MAX(S1,S2,...Sn) Sz - Sz 55 → Sq S~

Truy vét: last = 7. 2,6,7,12

i = lasti

while i > 0 do

[print (a[i]); // in xuôn = dun

stack

i = Trace[i];

ongest Common Sub Sequence X1,X2 ----, Xn Tim day con duy có do dai MAX and 2 day. te. S[ij] do dai day con duy dai nhat air BTCON Who when STi, 01=0. CTO:1-S[i,0]=0, S[0,j]=0, I ruy vet S[i,j] = S[i-1,j-1]+1, $n[i] \times_i = Y_j$ Trace $[i,j] = \{D': dicheo\}$ max(S[i,j-1], S[i-1,j], ngular) $\{U': dicheo\}$ max(S[i,j-1], S[i-1,j], nqua (w)

Sendo code go i=0 to n do S[i,0]=0;

gov $j=0 \rightarrow m$ do S[0,j]=0; for i= 1 to ndo for j= 1 to m do [i] ×[i]= >[i] then [S[i,j]= S[i-1,j-1]+1; [Trace[i,j]= D'; 55 S[i-1,j] then ig S[i,j-1]/ Di-| S[i,j]= S[i,j-1]/ | L Troce[i,j]= 'L'/ | else [S[i,j]= S[i-1,j]/ | corrigion () L Trace[i,j]= (V) reture S[n,m], Trace;