

Lupboliju で (とれ) m lien rus avasp を で で OPT (n) を で (n) = max {で (n) fin + で tis, ご tis]

T*(1)=+i++i, T*(x)= max {T*(x-1), Tx+fix}

DPT(n) < T*(n) ((kH))

L max { Tj + fij , Tk-1 + tikh + fikh } (kH)

jem) { Tj + fij , Tk-1 + tikh + fikh }

· MOPTIM = Tj + fij fa j+x, KH

T*(m) > Tj + fij > C(k), C(k+1) Tx+ fix in Ten + fien

7* (n) = 1 x + fix > Tr-i + firm tettics fix Tr+fix > Tr+ fix => 0> ten a zono oboins ar Tx /nl = Ten + hier Ten + fien > Ten + tien + files

tx > 0

· Ar optini= TO(E) in CREHT) > To + fly +

Tenthiem > Tenthik firm > fix azono anó
odivorca cerpa fij

Av T*(n) = Tj+fij ka j+k, km Da éxur azono apa T'M= Tx+ fix in Tx++ fix

Av 1 (m) = 7 k+ fix > SC(k) = Tk-1 + tien + fix+1 } => > { te > tien + fixer }

Ar Ta(n) = Ten + fien > (C(k) = Ten + tien + fien } => fiven > fix a zono c(kn) = Ten + fix ano qu. 64pà

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(03) (a) M=100 (A) Maray 9 4 AO 0/1 2 KOETOE ANAHETO: 1+100+1+100+1= 304 En. KOZZOĘ ; 1+2+1+2 = 6 (b) C(n,k): Elaxi620 cost fia k now zous Lives av Mein Bixe enidetes The norm TIES D, 23 *) c(n,kH) = min { c(n,k) + D[n, H], C (n, k) + M + D[n, k+1] HE n'= 51 av n= 27 C(n,1)= D[11,1] 1691,23 (A) oplor. + unos. not. (Nati c(n, 2) = min { c(n, 1) + D[n, 2] , c(n', 1) + M + D[n, 2] , n'= { a Anics (d) gericeron m2, 2 noters 48 c*(n) = min { C(0,n), C(4,n)} Cx(i): Larove wis surgices OPT 605 (P, i) # P= 1 n 0 i-067m noily if i= 1 cor K-0620 c(P,i) = D[n,1] Hiva M(i,j): Lo'(TO) else peraximens and €(P,i) € c(P,i-1) + D[P,i] i my j notn if c(P', i) + M + D[P, i] > c(P,i) nodundor. c(p,i) ~ c(p',in)+ M+ D(p,i) endif endit TPEXE OPT- COS (P, n) for p=0 km fra p=1 km naipou to Elaxi6to. OPOOTHTA 1) To neo'Bl. rapousiaJes Beit. unosoly XPON non. Eln) = ((n-1)+0(1) 2) H (unodosije cubra rott, kojeros (O(n) 3) 0 opt-cos unodof. Emera THV (*)

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ne enaguesin 620 \$ finning K (6200 0 [K=1] min (C[0,1] = D[0,1] = MIN COST / (C(1, 1) = 0 (1,1) Av 16xier n arase 6xion fra 2 mints 050 ioxier fra 241 C (2) = min } C (0, A), C (1, 2) { Ar Tor hyposo tima situal erne noth n thropsi va swebn 1 and Ta 2 va adda far notin prato -> ((11, 2+1)= (11, 2)+ M+ D[1,2+1] - va Efection Gent iSea -> C(n, 2+1) = C(n, 2)+ D[n, 2+1) 1) BENZIGTU UNOSOHU Aca siadèque is min {c(n, 2+1)} Ar EXW C*(2) to Elax. edotos fra 3) Baisn V 2 Linves & Ineos a-6.B To else unodosigh to min 5 tono) unapxeu suicompa i,..., j fenvis anountier to anotedesting si ever exn Leiejex 7.w to ivara (pa 1 nom vaite appa) GUAL VO6205 gra auzois va huv ei a (d) fericeren mxn nivaras ELAX1670, 2076: C(n, 1) = D(n, 1) $n \in [m]$ Exw enclose's noteur [c(n, k) + Cen(n) isra nodn? ai aj Statoper. m appoint ara C(11,2H) = min C(n', x) + M[n, n'] + Cx+(n')) likey (to mid. isno) Bi Bi (n1) ai = Bi n aj = bj C* (7+1) = min C (n, 7+1) naipou uno neo Bantra ME[m] the shapoperical kan
ra & a kea ~ (Me) / naidos aurosuv. 0 (m · n) xpor. nox. ein ai aj en(Te) ai + Bi is aj + Bj Nou Sixtera 4: 4: 43 4;n(a) A Qi = 6:-1 → 6: +6:-1 104) 10 A aj= Bjn -> Rj + Bjn A 16xiow (0)+(B) (C=n an is or (Was to 6705 = Ko 6705 (R, ... Ri) mint + kó6705(ai,..., 9;)+ n. k + K 6000) (bjt, ..., Bx) (C"(2) atono Ford-Fulkerson: Ar bow his highern ·Ar Exw tiero (4) aj + Bjn = Bj = Bjn To nes Banta THE TA autorimita ixy Apa Guod Kobtos = togroslbi, , sign aw har to n autorima Brow everythis cityman he was reproprehiors Bi-1)+ koczos (ai ... , a;)+ + M + to 67 (Bj. ... , Bx) < totas (61,..., 6:-1) + To G Exce for bycou n aw to TI I'x4 + M+ x06705 (Bi,..., By) zien (=) n trovasses otijour and s => rade autorim-ا دفاده ۱ افزیر (۱) مرده افزیر افزی

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your and uchiel union xuburarounds so voy; C! trong son de anó váde o (ápa zo nodí Ci aurakimza ¿ Eunnptrei zo oi) To nebbunta exe dien, eitequiva pre zons neproprétions (+ tions oje Li sixezar con anó ai) To neo Bantia Exel aion apa - rade aurorim-co ai Bribrer oje Li gra enreren - valte of sureppeio Etimperai zo noti Ci aurovinta =>-ITERNU n provissor cons ano s neos ra q' Trèhou and valle qi I thoraisa con's ress to oj nou - or tworases pon's and kaide of sivar & G o (m² loge C) he C=m, m=n+k+n·k 0 (n 2 log n)

(58) 3DM -> 56 <axb×r, F> → < x, s, p, 3, x> x= AvBvr $S(R) = \begin{cases} 1 & x \in A \\ 2 & x \in B \end{cases}$ K = 3|A| $S(A) = \begin{cases} 1 & x \in A \\ 2 & x \in B \end{cases}$ からない ファルンシャ P(x)= 1 + x + X 25(x) = B B= 61A1 · <AxBx F, F> € BDM => = H = F Az |H|= IAI , rate zpiasa czo 4 Series isa curitage. He alles tolased => C(H) = { a, b, 8: (a, b, 8) EH} I 3 (x) = I 6 = 61A1 , IP(x) = 3 A1 XE (H) (36, 8) EH · <AxBxr, F> &3DM => & HSF h+ |H|=|A| 15 wahia Topiasa 620 It seen exte i see sweezege he a 72m topia'sa VH ⇒ |C(H)| <3.1A1 > ∑ P(x) < 3.1A1 } Z S(x) < 6.1A1 ((5a) Bl. Snapairey wreduction examples >> LONGEST PATH -> 5a ? av Str einer Grettako to G tou L.P. - 6:60805 670 L.P. ? nus Jiem nova kopupi na kaim s npoblèm hia véa var as enim ozes tre ourin > x=1/1/14

(G> -> (G', 14) G': G o'nor èxu pla ropron S now our gierar pre o'Ats rus ropropés wu 6 (G) EL.P ⇒ G: 6WCKELLO & ÈXEL posonail 2007. IVI/4 timbos tot > G': GUHKELIKÓ & ÉXEL HOVORÁZI HÍNKOUS -COUR IV1/4 => Exw Serres Guserario pe eija m 5, nepilabava to trovonàti propanam klasia trikous I anó 5 gra o'6ts kopu-QES Sow amyour 600 P. (6) (1.P =)(11)G OXI EVERTURO => SON EXEL CUMERTURO SEVERO (N2) 6 int contrario & ride poronaire E'xee difo-Ttpo and 11/4 tinkos => vale vias 6-8 ouseers

Sévres cou G' Exel times < [V] +1

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