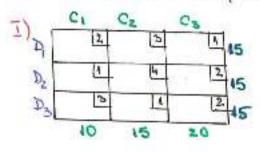
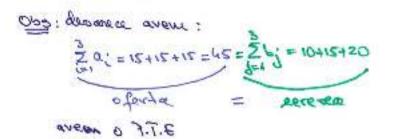
### Servivar 1+2 Rezolvarea probl. de transport edulibrate (PTE)

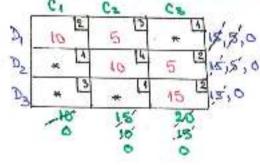
São se determine soluția (-ib) optima (-e) a urmatoarelor P.T.E.





#### I.1) ar metade diagonder

#### 1 Debernavion Xa - 8.8.41 Or metada dispenalei (a coltubi de N-V)



 $(X_1, X_2, X_3) = (X_1, X_1, X_2, X_3) = (X_1, X_1, X_1, X_2, X_3) = (X_1, X_1, X_2, X_3) = (X_1, X_1, X_1, X_2, X_3) = (X_1, X_1, X_1, X_2, X_3) = (X_1, X_1, X_1, X_1, X_2, X_2, X_3) = (X_1, X_1, X_1, X_1, X_2, X_1, X_2, X_3) = (X_1, X_1, X_1, X_1, X_2, X_1, X_2, X_1, X_2, X_3) = (X_1, X_1, X_1, X_1, X_1, X_1, X_2, X_2, X_1, X_2, X_1, X_2, X_1, X_2, X_1, X_2, X_1, X_1, X_2, X_1, X_$ 

Determinan adunte abuteller nebatice (secondare, above) solvation contitatile of consequents toose acordora:

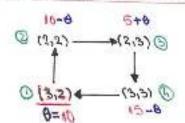
(3) Aplican outerial de intrave in breto (desterminan variabila nebatica Texe=x=0(4))

Calculan:

σες max {δί; 20 } = max { δελ 1 δ32 } ± δ32 => variabila (πα32 π) into in bate (sturing variabile basice (principalt)

( Latitum oridarial de regine din bat (de bounisans variabila boire principala 2000 core isse din boto (desina reborita/ascumbata) (-1)

#### (1) Deservan cidel alulei "x = 2 4"



Obs: ciclul colubi (3,2) & oto format din 4 colube, numerolate ont fel: (3,2) - (3,2) - (3,2) - (3,3)

indeed on me column on me, par.

#### @ Determinam navabile " the - " care in der poo

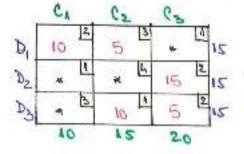
Debruinam: Q = { min { xij 20 } xij aftate in celula (ij) an myar }

= min { x22, x33}=10 = vanishila basica principale, x22=10, devone =10 =15 vanishila rebusica (x22=0=x)

# 6 Deberminem war selectio X -58A, facind administra de bose:

Desenan an non tabel al PTE care va contine valorile voir adulti (obtinto ef rel (28) din uns) care se abin astfal: [- valorile sej; din cidal calulai, sos, se modifico es mED

I respect reporter soit give topol so colsic gen recognit paper



ecolul total de touseport at mai mic (283) ès vous solutie X, dest ph. veclu salufie X

Se reiau chapele 2)-5) give la definera adupe a ptime Xaphu.

#### Se reion etapele O-6:

#### O Sebermina u SBA i To as metoda actualor minimo

	C,	Cz	Cs	
D	* 2	* 3	15	15,0
72	AO A	* F	5 2	15,5,0
23	* [7	15	0 3	15,0
	40	15	20	
	0	0	0	

Os: decare sunt mai multe alule ar acelan cost minim (=1)

am ales urmatoarea ordine in disternimore componen- Liber To;; a solutivi To:

\$ 3, \$ \$ 22, 1 \$ 22 laid am also \$ 33 - var. press. ) agoi \$ 23.

(x=(0,0,15,10,0,5,0,15,0) = 29 + 3841 degenerate

$$\delta_{11} = -2+1-2+1=-2$$

$$\delta_{12} = -3+1-2+1=-3$$

$$\delta_{22} = -4+2-2+1=-3$$

$$\delta_{31} = -3+1-2+2=-2$$

(4) Eizo Xº ete soluție aptime en unice (!!1) (que di degenerate)

( could total mining de haneport este egal en 50 (um) n' poate fi ative dear dace hane partul contribétiles de man Le se face conform taballul accepunde for suivide se injunta prime n' unice so.

9.2.9

Obs: i) aven afanta totala (din deposite) egala an curenca

totala (a antelar de desfocare) i deci P.T et echilibrati

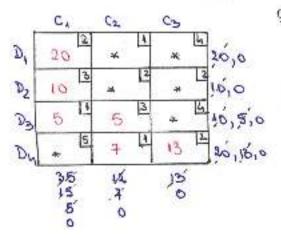
20; = 20+10+10+00 = 60 = 2 0 = 35+12+13

orenta = arenea

il) {m = 4 - 3 nr. de de posite {n=3 -> nr. de majorive (autre de desfocure)

II. 1) Deberninam Xo on weboda diagonalei (a ocholini de H2)

## O Dekronivam X - 3041 (in wetake diagnostic)



Obs cf. mobile, ordina betorn variatialler ate: x11, x21, x31, x32, componente (anado) secundare, egule ac 0 et 2212, x12.

= (20,0,0,0,10,0,0,5,5,0,0,7,13) = R12 ~ SELI WAY.

composent (various) principale, in mode money = 4+2-1=6 (+outs vouch => X- radigenerals)

f(50) = 3.20+3.10+1.5+3.5+1.7+ 2.15=123(um)

a transporte marka of les to

Deplican oribertal de optim

Vom callable valorile, dij " corespensabane cichenilor calullar vabarica/libere recundere

$$\begin{cases} \delta_{12} = -1+3-1+2=3>0 \\ \delta_{13} = -4+2-1+3-1+2=4>0 \\ \delta_{22} = -2+3-1+3=3>0 \\ \delta_{33} = -4+2-1+3-1+3=4>0 \\ \delta_{33} = -4+2-1+3=4>0 \\ \delta_{41} = -5+1-3+1=-6 \end{cases}$$

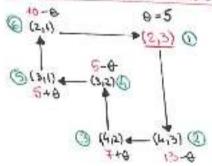
Xo mu sot poluție optime.

( Fair marketiel de intere (more)

que que max { 2 = 0 > 0 } = max { 212 1 213 1 255 255 } = 23 = 0 π 25 = 2 = 0 (1) inter in part

@ Aplican ordered do isone (Am hose)

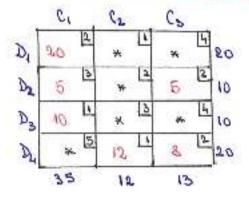
( ) Description outles abolis , To the



(a) minimum variabile " Ipo (-0) ( letermine a ( )

= min { 2003, 2013 afeste in action (ij) at we bar give aight copyres \$513)\$ } = min { 2003, 2013 afeste in action (ij) at we bar give posse (252)\$ } = 0 = 20, 20)

6 Department would sidely X, -584 (facility scholin barred de basis)



(=) \( \frac{\times\_{0},0,0,5,0,5,0,0,0,0,0,12,8)^{\times\_{0}} \in \times\_{0} \times\_{0}

nail cost total de transport et. madului de transport definit de volutia XI

Ob3: reluan etapele @- @ all algoritmului de rechare a 7.T.E.

Calculant,  $\delta_{ij}$ ::  $\begin{cases} \delta_{i2} = -6+6-2+2-9+2=-6 \\ \delta_{i3} = -6+2-3+2=-3 \end{cases}$   $\delta_{22} = -2+2-2+6=-6 \\ \delta_{33} = -6+1-3+2=-6 \\ \delta_{33} = -6+1-3+2=-6 \end{cases}$ 

((2)5; =0) (=) (1) 0 00 de not optime ou acception relace minima a antuli

II2) De berminiour molulia inificato Xo as matoda occidabili mining

Resolvati va miguri acara !!!