#1 \$ http://web.ist.utl.pt/~mcasquilho/compute/or/Fx-lp.php

W

		N		
Linear Programming			Execute	
Solves a I	Linear Programming problem in canonical form by	y Dantzig's simplex method.	2009.Mar.14 18:58:15	
iOpt	max 💌	Maximization or minimization.		
n	5	No. of <i>variables</i> (structural, slack, art	o. of <i>variables</i> (structural, slack, artificial). •	
P ^T	Objective function coefficients • 20 30 0 0 0	coefficients •		
A	Constraint matrix (row, then RHS of equality .01 .075 1 0 1500 .08 .1 0 1 200 .05 .15 0 0 1 1500	raint matrix (row, then RHS of equality $< ret >$ new row) • .075 1 0 1500 .1 0 1 1200 .15 0 0 1 1500		
Initial basis	Variables' indices • 3 4 5	bles' indices • 4 5		
Show	b+rc 💌	Show intermediate steps: bases (b), re (m).	duced costs (rc), matrices	
The constraint matri - 1 4 78 . The progra This Problem follow 'Delta' is: (<i>a</i>) [V. Ta' the constraints, accordi	ix, <i>A</i> , must be given ending (each row) with the right ram finds the number of constraints . vs the manual resolution by the matrix method (revi vares, 1996] the <i>reduced cost</i> (rc) vector; (<i>b</i>) [Win0 ng to the slack variables. ('Lindo' [2002] gives sym	ht-hand side (RHS) constant ('return' at end of line). So, e.g., - x_1 ised simplex). For a "commercial" resolution: <u>NAG</u> version. QSB, 1996] the <i>rc</i> vector for the structural basic variables, and <i>mi</i> metrical <i>rc</i> .)	+ 4 x_2 = 78 would become inus the shadow prices for	
Reset	 <i>References:</i> TAVARES, L. Valadares, Rui Carvalho OLIVEIRA, Isabel Hall THEMIDO, F. Nunes CORREIA, <u>1996</u>, "Investigação Operacional" (Operational Research), McGraw-Hill, Amadora (Portugal). <u>WinQSB</u>? (see instructions !) by Yih-Long Chang in LAWRENCE, JR., John A. and Barry A. PASTERNACK, 2.nd ed., 2002, "<u>Applied Management Science</u>: modeling, spreadsheet analysis, and communication for decision making", John Wiley, New York, NY (USA). <u>Lindo</u>?, Lindo Systems, Inc., Chicago, IL (USA). <u>WAGNER</u>, Harvey M., 1972⁺, "<u>Principles of Operations Research</u>, with applications to managerial decisions", John Wiley, New York, NY (USA). 			
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