

Copy of exercise 33.xlsx - Microsoft Excel

File Home Insert Page Layout Formulas Data Review View Developer Add-Ins

From Access From Web From Text From Other Sources Existing Connections Refresh All Connections Properties Edit Links Sort Filter Reapply Advanced Text to Columns Remove Duplicates Data Validation Consolidate What-If Analysis Group Ungroup Subtotal Show Detail Hide Detail Outline

fx =SUMPRODUCT(\$C\$4:\$C\$14;\$D\$4:\$D\$14)

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
1	x <sub>ij</sub> =1 if arc (i,j) is in the path; 0 otherwise ; for (i,j) arc in the network																			
2																				
3	From	To	Solution	cij		vertices														
4	Lisboa	Madrid	0	650		Lisboa	0 =	1												
5	Lisboa	Londres	0	2250		Madrid	0 =	0												
6	Lisboa	Porto	0	350		Londres	0 =	0												
7	Madrid	Copenhaga	0	2650		Porto	0 =	0												
8	Londres	Estocolmo	0	2800		Copenhag	0 =	0												
9	Londres	Frankfurt	0	600		Estocolmc	0 =	0												
10	Porto	Frankfurt	0	2350		Frankfurt	0 =	0												
11	Copenhaga	Estocolmo	0	700		Oslo	0 =	-1												
12	Estocolmo	Frankfurt	0	1600																
13	Estocolmo	Oslo	0	600																
14	Frankfurt	Oslo	0	1600																
15																				
16		Total distan	0			C16==SUMPRODUCT(\$C\$4:\$C\$14;\$D\$4:\$D\$14)														
17																				
18		G4=SUMIF(\$A\$4:\$A\$14;F4;\$C\$4:\$C\$14)-SUMIF(\$B\$4:\$B\$14;F4;\$C\$4:\$C\$14)																		
19		G5=SUMIF(\$A\$4:\$A\$14;F5;\$C\$4:\$C\$14)-SUMIF(\$B\$4:\$B\$14;F5;\$C\$4:\$C\$14)																		
20		G6=SUMIF(\$A\$4:\$A\$14;F6;\$C\$4:\$C\$14)-SUMIF(\$B\$4:\$B\$14;F6;\$C\$4:\$C\$14)																		
21		G7=SUMIF(\$A\$4:\$A\$14;F7;\$C\$4:\$C\$14)-SUMIF(\$B\$4:\$B\$14;F7;\$C\$4:\$C\$14)																		
22		G8=SUMIF(\$A\$4:\$A\$14;F8;\$C\$4:\$C\$14)-SUMIF(\$B\$4:\$B\$14;F8;\$C\$4:\$C\$14)																		
23		G9=SUMIF(\$A\$4:\$A\$14;F9;\$C\$4:\$C\$14)-SUMIF(\$B\$4:\$B\$14;F9;\$C\$4:\$C\$14)																		
24		G10=SUMIF(\$A\$4:\$A\$14;F10;\$C\$4:\$C\$14)-SUMIF(\$B\$4:\$B\$14;F10;\$C\$4:\$C\$14)																		
25		G11=SUMIF(\$A\$4:\$A\$14;F11;\$C\$4:\$C\$14)-SUMIF(\$B\$4:\$B\$14;F11;\$C\$4:\$C\$14)																		
26																				
27																				
28																				
29																				
30																				
31																				
32																				

**Solver Parameters**

Set Objective: \$C\$16

To:  Max  Min  Value Of: 0

By Changing Variable Cells: \$C\$4:\$C\$14

Subject to the Constraints: \$G\$4:\$G\$11 = \$I\$4:\$I\$11

Make Unconstrained Variables Non-Negative

Select a Solving Method: Simplex LP

Solving Method  
Select the GRG Nonlinear engine for Solver Problems that are smooth nonlinear. Select the LP Simplex engine for linear Solver Problems, and select the Evolutionary engine for Solver problems that are non-smooth.

Help Solve Close