作業研究 prelecture 10

1	(A) A 2	
0	27 A G = (V,E)	
	0 13 4 4 1 7	
-	4 3 7	
7	We god gre (T, 0) to E	-
0	Let Uis be the capacity from vertex i to vertex j visit	
3	The formulation is:	V
7	(vai is the florton itai)	
19-	min -xxt0	
0-	5.t. Exik - Exk; = 0 ykel	
0	Xijehij b (ii) EE	
0	xi ∈ ₹ 7 (i,i) ∈ €	
0		
0 -	(b) The coefficient matrix:	
0	1-x10+X0A + X08 + X01	
0	-X QA XAD + XAB	=0
0	-XOB -XAB+XRD+XRD+XRD	=0
0	-YOL -YOHYCK	=0
0	-XAD -XBD + XBT +XDE	= 0
	-XBIE -XCE -XDE+XET	=0
0	In each column, there are exactly one I and one - 1 (other 0)	=0
0	Il Satisfy the unimodularity preof	
	all elements are 1,0,-1	
-	Deach column commins at most two nonzero elements	
0_	And rows can be divided into two groups so that for	
0		
	if and only if they are different,	