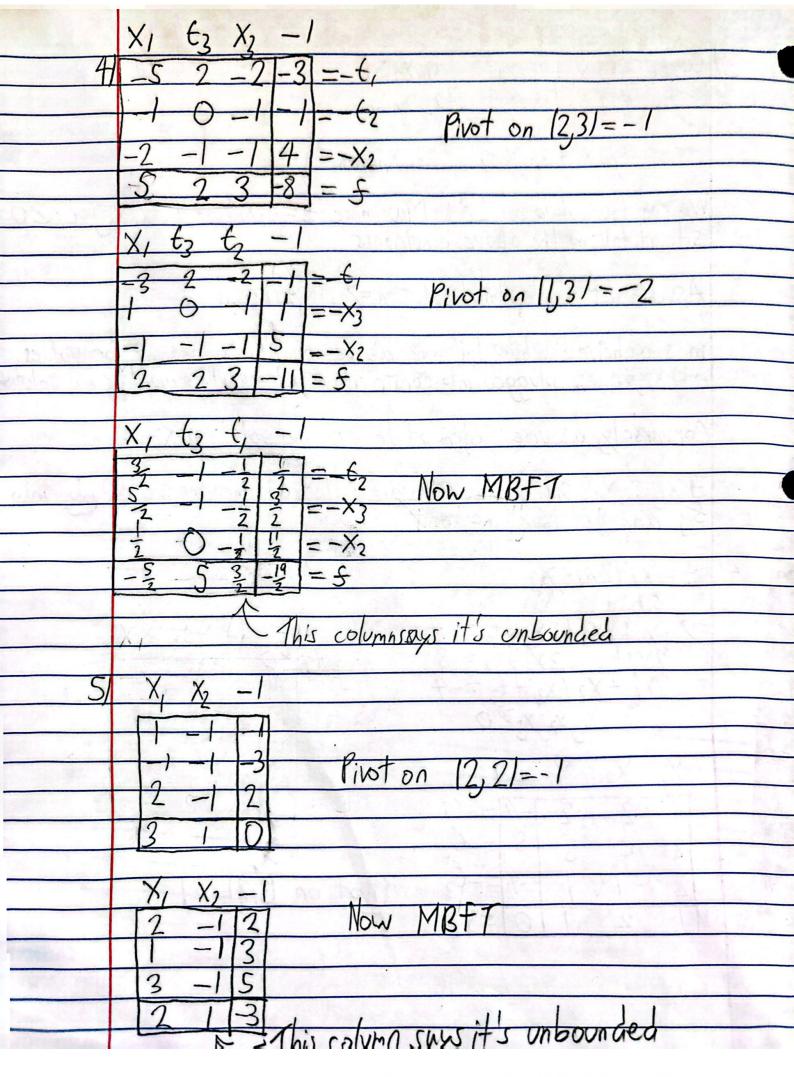


3,	Given a11x1+a12x2++a1nxn≤b1 021x1+a22x2++a2nxn≤b2
	1 1 TU22 NOT +W2n NA - b2
	an, x, +an x2++anxn sbm
	We can fourmulate an LP! Maximize S=C1X,+C1X21+C1X20 CiZO s.t. it follows the above constriants
	Assume LP has optimal solution => max(f) = m
	m is acheived while following above constriants meaning for values of x,, x, plugged into constriants, system of lin inequalities has solution
	01 x, x, plugged into construction ) system of in inequalities has solving
	Conversely, assume system of lin. egs. has solution <=
	I(X), Xn3 s.t. inequalities are satisfied meaning we can plug into S, and get max(s) = m v
	and get max (3) = m V
41	S= x, +2x2+x3
	S,t.
	$= \frac{1}{2} \times \frac{1}{4} \times \frac{1}{2} \times $
2	$2x_1 + 3x_3 + t_2 = 3$
2	$\frac{2x_1 - x_2 + x_3 + 5 - 7}{2x_1 - x_2 + x_3 + 5 - 7}$
	X, X2, X3 < U
	$X_1, X_2, X_2 = 1$
	1 2 2 -461
	2 2 5 - 6
	7 0 5 6 7 7 1
	2 -1   FT-03   TIVOT ON 13, L)=-1
	11 2 1101=5
Indian.	AND



Scanned with CamScanner

61	two shifts from: 12am - 4am - 5 workers Si
- 0,	4an - San - 4 nonkene Sy
	Ram-12 rm - 15 worker Sishift #-Si
	12pm-4pm-10 workers 54
40	4rm- 8pm -20 workers so
8	4an - 8an - 4 nonkers Sz 8an - 12pm - 15 workers Sz Shift #-Si 12pm - 4pn - 10 workers S4 4pm - 8pn - 20 workers Ss 8pm - 12am - 8 workers Ss
	[2] : [4] [2] : [4] : [4] : [4] : [4] : [4] : [4] : [4] : [4] : [4] : [4] : [4] : [4] : [4] : [4] : [4] : [4]
	two shifts consectutive: \$25
	two shifts nonconsectutive: \$32
1244	그는 것이 얼굴이 들어보다면 하지만 하다면 하는 것이 나는 사람들이 되었다면 하는 것이 모습니다.
No. 12	Let Xi = # of norkers norking shift ili
100	the state of the s
	distribution of the state of th
	Minimize 25 X12+X23+X34+ X45+X56)+ 32 [X12+X14+X15+X16+X24+X25+X26+X35+X36+X46]
	32 [x13+x14+x15+x16+x24+x25+x26+x35+x36+x46]
	S.t. X12 + X12 + X14 + X15 + X16 Z S X23 + X24+ X25 + X21 + X12 Z 4
	X23+ X24+ X25+ X25+ X25+
	X34+X35+X36+XB+X23Z15
	X45 + X46 + X14 + X24 + X34 - 10
	X56 + X45 + X25 + X25 + X15 = 20
	X11, +X26 +X36 +X46 + X56 - 8
1	
4 7	
1251	
4	
Allen	