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15/ENG02/024

COMPUTER ENGINEERING

CLASSWORK

S/ENG02/024
Computer Engineering
: Cognecing
di = dement à forthe month ; Zi = number of askers during ithmonth; Zo=30
yi = number of States made overling in month i
Oli = nun bur pf car pets made during the its month
hi, fi = werker fined and fired reprotively at beging
OF Month ,
Si = number of stored compet stored tendet is
So = Auchter ()
Zi, yi, 26, hi, fi, Si, So, 40 7, 0 1, =1,23, 12
To tal carpets made;
×i=205.+9
2(i = 202: typ
Potential number of workers at start of each month
$Z_i = Z_{i-1} + h_i - f_i$
Number of stured cape Carpets;
$Si = Si \cdot i + 2ci - di$
where g 1 = print to before
limitation of Overtime
y; ≤ 6zi
Objective function is to minimize total cost' Hence;
min = 2000 521 + 320 Ehi + 400 Efi + 82 5, + 1802 41
Coefficients are gother from the question.

2 Production of Key band	Consumption of Keyburg
Kansus LS	New york 10
Mexico 8	California 13
2	
Transportation of Keyboard	
New york (\$) (aliforning (\$)	
Mexico 4 (asi) (asi	2)
14msas 2 (A11) 3 (A12)	
Kansas Ku New	Yurk
212	
- Mexico 242 Califz	ofnig
- Production Constraint	Real and the second second
$x_{11} + x_{12} \leq 15$	0 0
$-\frac{\gamma_{21}+\chi_{22}}{5}$	
	0000
- Consumation Constant	RING
$x_{\mu} + x_{2} \leq v $	
$-2(12 + \chi_{22} \le 13)$	
-	-
Minz= au X, + a12 X12 + a21 X21 +	912 7627
Minz = 2x11 + 3x12 + 4x21 + x22	
	transportation &
	(ost)

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		ML
A		1174
	Add Slack	1
	\$ 2201	KAI
ALL ALL	$L_{i} \vdash z_{i} = z_{i}$	1P
and	$\mathcal{K}_{12} = \mathcal{K}_2$	
	$\mathcal{I}_{21} = \mathcal{X}_{\mathcal{Y}}$	TA
and and	$\chi_{22} = \chi_{4}$	\mathbb{I}
the a	Z= 2x1 + 3x2 + 4x3 + 24	XA
and the state	$3c_1 + x_2 + 5_1 = 15$	
fi a	$x_3 + x_4 + s_2 = 8$	11
	x1+x3 + 53 = 10	
	$\mathcal{X}_{2} + \mathcal{X}_{4} + \mathcal{S}_{4} = 13$	
23	Z-204 -3x2 - 4263 - 26420	X
20	<u> </u>	14/
	ber Basic x, x2 x5 x6 5, 52 52 54 RHS Ratio	W
		12.
1		Un
F-	<u>s, 1 1 0 0 1 0 0 15 15 = 0</u>	XID
	52 0 0 1 1 0 1 0 0 8 3/=8	11
F	53 10 10 00 10 10 19,210	
	St 0 1 0 1 0 0 0 1 13 140=0	
-		
	Most regative value from Znow in -4 here we make 203	
1 II	Key Column ' Therefore rowszis our heyrow	
1	er Benie 26, Xe 263, X+ 5, 52 54 SHS Ratio	
a second second		
A REAL PROPERTY AND A REAL		
	<u>SI 1 0 0 10 0 15 15/=15</u>	F
	x, 0 0 1 0 0 0 3 30=0	
- (ss-	x) s3 ♥ 0 0 -1 0 -1 1 0 2 3=0	
	5+ 0 1 0 1 0 0 0 1 13 1/ =13	-
1.	ought Z Value is -3 making 22 the key Column, Hence we have now Sta	ske.
	J leven j lieve de tre - St	C

$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
- Since -2 is the lowest Zvalue we pick x, as Key Colum - Here, we select som Row SI as Key con	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
Therefore: $\frac{2}{2000} = \frac{67}{24} = 2$ $\chi_2 = 13$ $\chi_3 = 8$ $\chi_4 = 0$ Hence Zhin (minimun (ost)) = 75.	h ti a ti a ti a ta
	a a a a a