Assignment Problem

16 March 2021 09:30

- It is a special case of Transportion Problem - Assignment model " Best Person for the j - The objective of assignment essignment of worken to july. - It in a special cone of Transportation Problem. an LP model defined min Z = 2 2 Cu, Xij 5.4. xu = 1, j = 1, 2, - 1 *i=*1

Karen, mey for Personal Jols namely mowing Clildren

these Jobs. The Lik are es follows.

	Mouns	Parat	wash
20 pm	15~	(15Y	90
Karen	(9)	15	16
Teri	10	12	8

Klyne has to assign dobs to his children in such a way that the cost is the optimal assignment.

Any (Hungarian Alsmithm)

Ster 1:

Find YOW minima & sult from all element. (for matix.

Subtract Row min from all elements in each row.

15-4

0 6 1

2 4 0

Ster 2

For each column find

Cil num min and subtract the

ster elements.

0 6 1 2 4 0

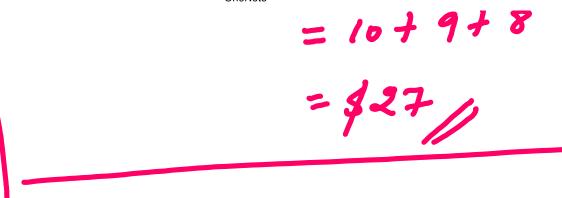
(i) Check row wise.

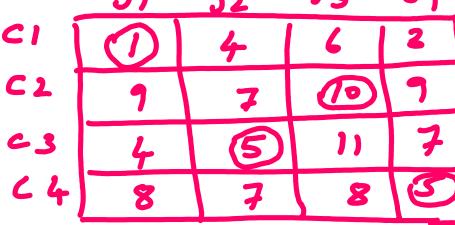
Identify row with union
Zero. Circle it. If the
are any Zoo in Hat
Corresponding column Cross

oumn wise.

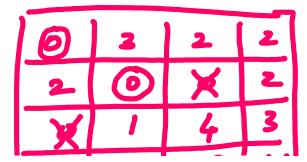
(ii) If then stop. Comerdaka

optimal





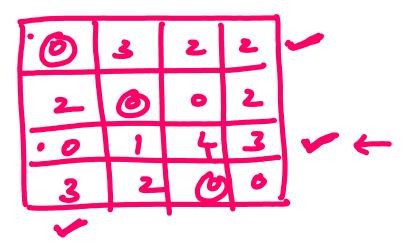
posignment Final



No. of assignment of order

Not optimal.

Aldikim Computation

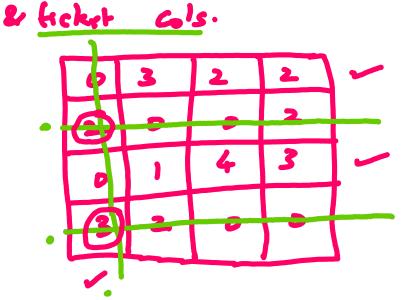


- (11) In the ticked row, look
 for o cell. Put v in Con
 colorum.
- (11) Examin ~ marked color

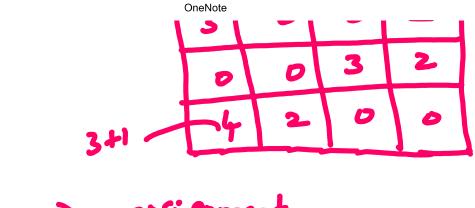
 If any assigned a exists

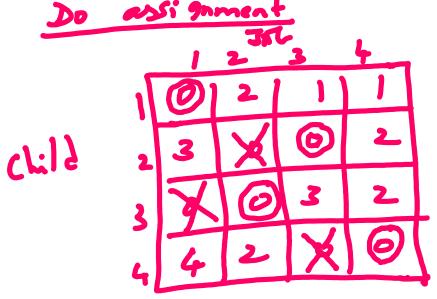
 in that Glamme Hick Gove

(a)



Smallest





04hma) Assignment

(Lill 1 — Joll

Child 2 — Jold

Child 3 — Jold

Child 4 — Jolf

Min (Ost = 1+10+5+5

= 21

Note: In case of Maximization

the highest	all clements from element. Then apply			
meningation	Procedur.			
Sales P R R S	Procedur. A 200 C 3 140 112 98 154 90 72 63 99 110 88 77 12 80 64 56 8			
Largest element = 15 T				
Subtret All elements from Lighest.				
2,7	14 42 56 ° 64 82 71 55 64 66 77 33 74 70 78 66			
	14 42 36			
	64 82 11 03			
	44 66 77 33			
	74 70 78 64			
New	minimose. HW 392			