Integen Linear Programmi Problem er programming problem sofar uses variables which are positive Always this is not true for example if a variable represents no of chavy no of books, no of persons, no of rehide · In an LPP, where all the variables, are restricted as integers is called If some of the variables are restricted c pure IPP. as integers, their it is called mired IPP : SOUTH TO SEE THE Structure of general IPP 101, 1, Max Z = ex/ Mility 1 S.t. Ax=b, x>0 and xj & x are integers Solution method of IPP (1) Bromory's cutting plane method (11) Branch and Bound method in Procling of it for day. Tour town

Giomory's ( Cutting plane, method !! ) This method was developed by R. F. Gromory This method is based on! Introducing new constraints (or cuts) to the problem which remo optimal solution but doer not at fearible integer solutions." In this method, we first find the optimal solution, of the given IPP simplex method disoregarding H condition of the tariables! Following situations may occups. i) If values of all variables were integ in the optimal solution. => current solution, will be des Optimum integer solution Other wise the problem in Some modification. We introduce a secondary constraint (bromory's cut) that reduces () some mon rinteger values that reduces !! > minate any fearible. integer solution, .... 11) The optimal solution of the modified problem is obtained by standard algorithm. In this courtion, if all, the variables are intégers, then procedu 131 10.01 Sto ps

Otherwise another secondary and Constraint is redded to Ipp and	
The process is sur	l '
Let the following table gives of the	
non integer sols	,
CB B 20 b y1 y2 - Cu - Cm J Jun 1 - Jun 2 - - Ju	
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Cm / 2m bm 0 0 12m+11-24	
Zj-cj o o - Joleson	
2,-, xm are basiel variables.	
7. the - mi	
Lie acsume that	<u>.</u>
a corresponding	
(y, m+1) xm+1 + - 1 + (yk, m) xm, in / (yk, m+1) xm+1	
(yx, m+1) <n (yx,="" 2)="" relation<="" td=""><td></td></n>	
Nov = xxx + 12 mx1 xil (3x, 2) xxx/1/6 (1)	
xx = xx - l=mt) part part.	
Xx = xex - 1 = m+1 m (yx, e) red y court.  Let XBx = IBx + factional point.	
Yul = Iris + fre	
0 V−1′	

for, fre ( [O, 1) fue xi +1/9/2017 (3) dual simplex method will hard Alleria is abbeing a to have at a strain in the said walkers Perio intropo

(A) FMI I III Ke formulate the given IPP in the standard form land some Ipp as usual Simplex method Modify Simplex table for optimal sol by adding one more Optimal row and use pual No Simplex method. will be initial leaving variable variables the largest fractional war valsh be Write the Corresponding Constraint ear for this variant stack variable & be Gramarian cut for this variable Plow chart for Bromory's purce IPP and for assistant seminor and