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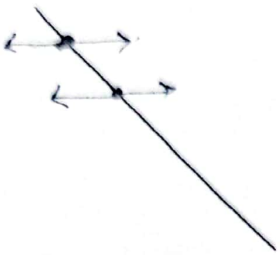


(X) 0 0 X
0 (0) X 0
X 0 (0) X
0 X X (X)

(X) 0 0 0
X (X) X 0
0 0 (X) X
0 0 X (X)

$r_1 = 4$ $c_1 = 3$
$r_2 = 2$ $c_2 = 3$
$r_3 = 3$ $c_3 = 2$
$r_4 = 3$ $c_4 = 4$

$r_1 = 1$ $c_1 = 2$
$r_2 = 2$ $c_2 = 1$
$r_3 = 2$ $c_3 = 2$
$r_4 = 2$ $c_4 = 2$

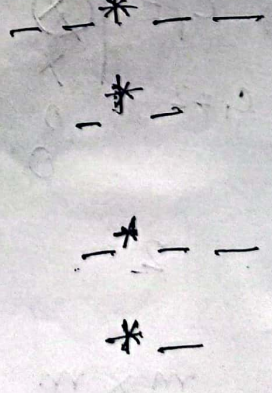
branch
bound

m x m
col row

m x m-1
col row

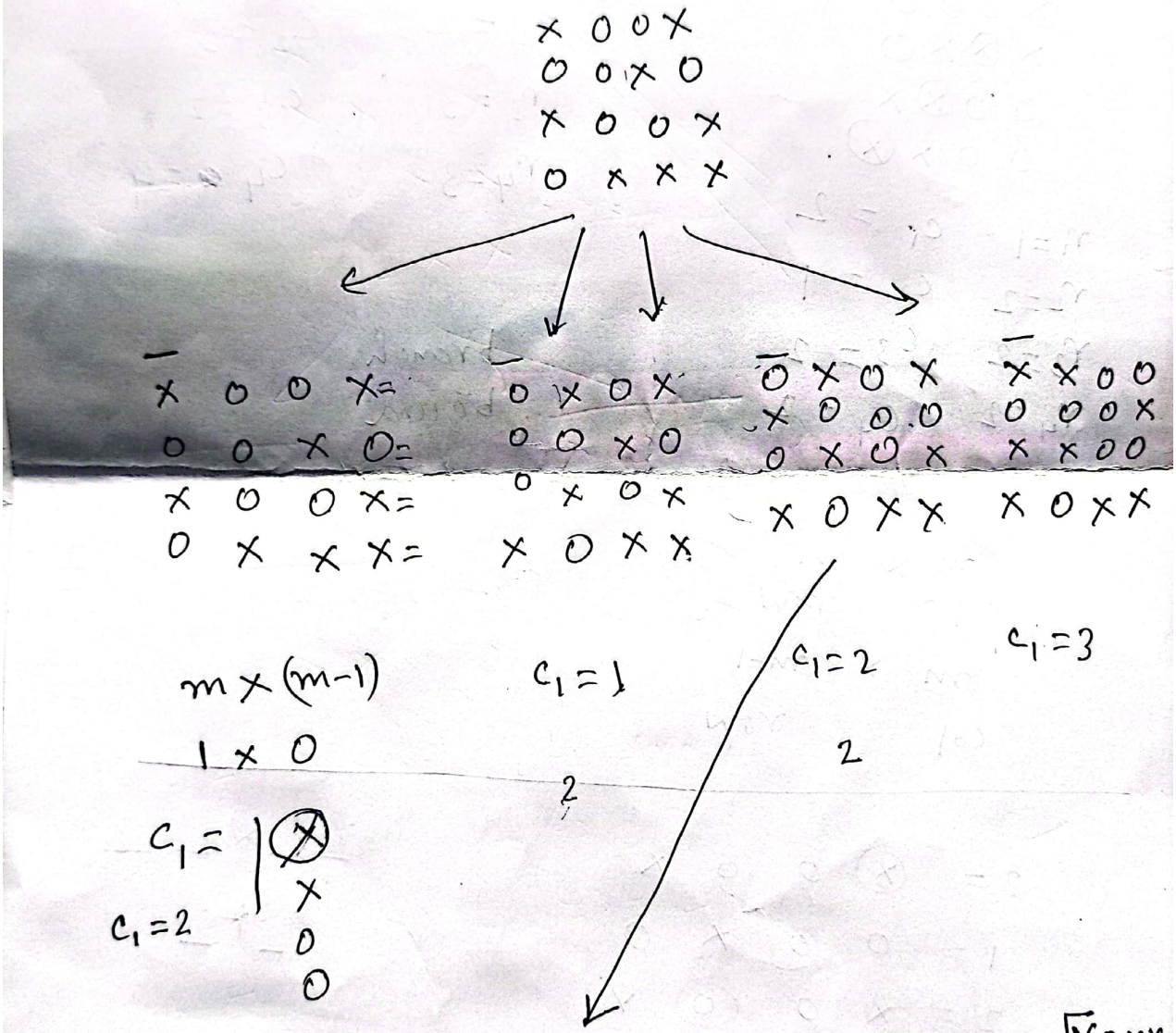
---

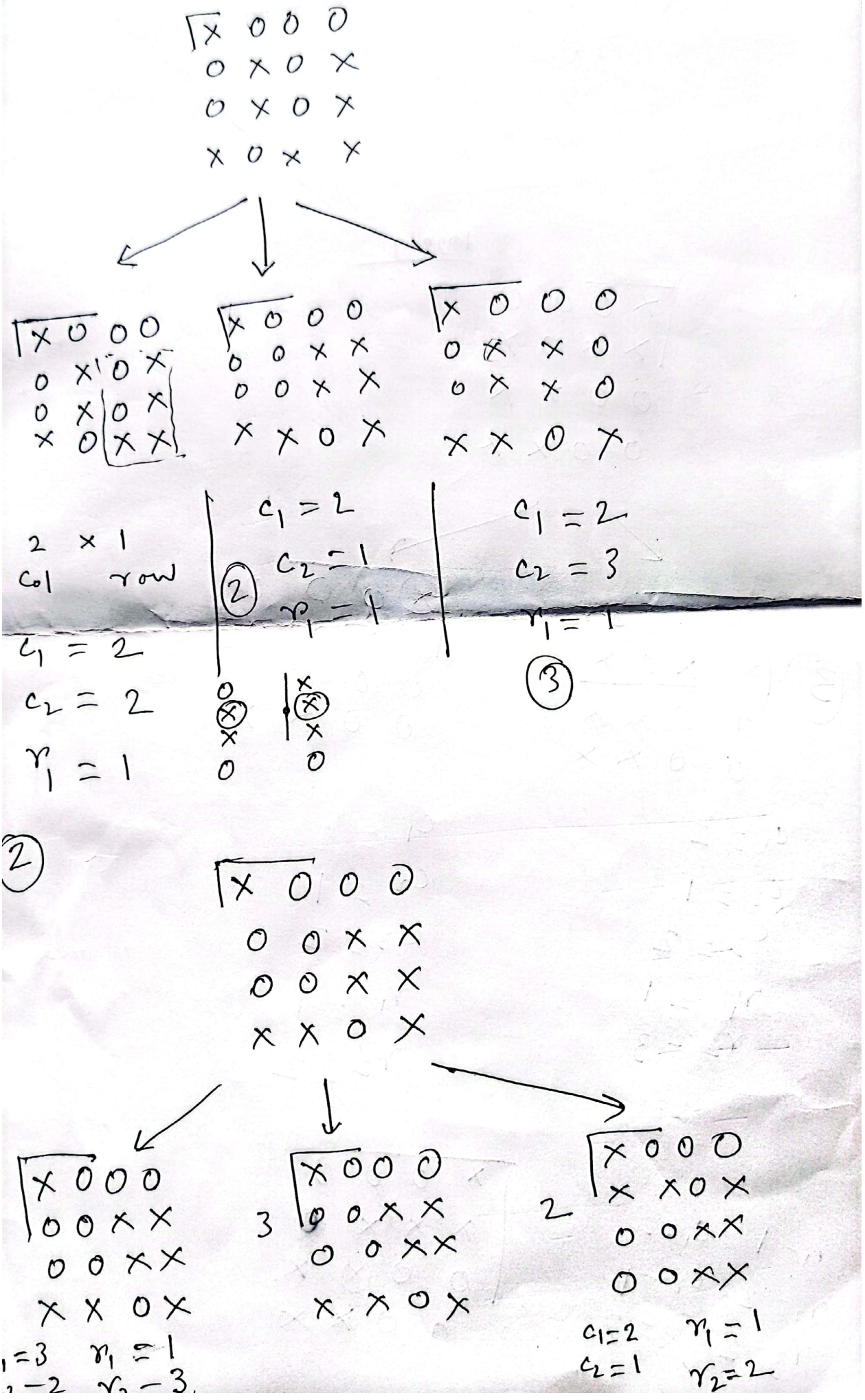
2 = (X) 0 0 X
1 = 0 (0) X 0
2 = X 0 (0) X
3 = 0 X X (X)
= = = =
2 1 2 3



$\frac{count+1}{2}$ 5/2

floor $\left(\frac{count+1}{2}\right)$ = 2.5


m x (m-1)
1 x 0
c1 = 1
c1 = 2
c1 = 3
c1 = 2
2
2
m x m
1 x 1
c1 = 3
r1 = 3
c1 = 2
r1 = 1
c1 = 3
r1 = 3
c1 = 2
r1 = 3


c1 = 2
c2 = 2
r1 = 1
c1 = 2
c2 = 1
r1 = 1
c1 = 2
c2 = 3
r1 = 1
2 × 1
col row
2
3
c1=3 r1=1
c2=2 r2=3
c1=2 r1=1
c2=1 r2=2

X	O	O	O
X	X	O	X
O	O	X	X
O	O	X	X

(3)

X	O	O	O
X	X	O	X
O	O	⊗	X
O	O	X	X

$c_1 = 2$
$c_2 = 1$
$c_3 = 2$
$r_1 = 1$
$r_2 = 3$

⊗	O	O	O
X	⊗	X	O
O	O	⊗	X
O	O	X	X

$c_1 = 2$
$c_2 = 1$
$c_3 = 2$
$r_1 = 1$
$r_2 = 2$

$r_1 = 1$ $c_1 = 2$
$r_2 = 2$ $c_2 = 1$
$r_3 = 2$ $c_3 = 2$

X	O	O	O
X	X	X	O
O	O	⊗	X
O	O	X	⊗