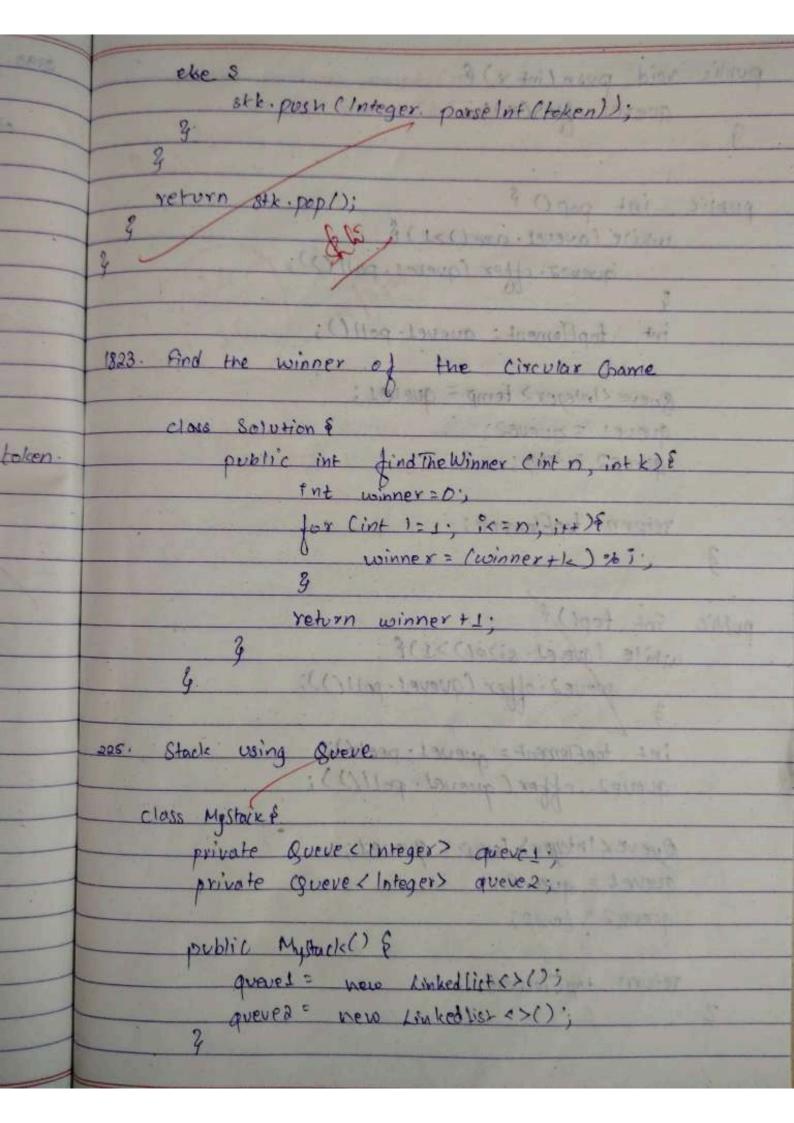
Name KUMUD RAJ GHIMIRE Class 40

Roll No CS160 Subject ADA Lab School BMSCE

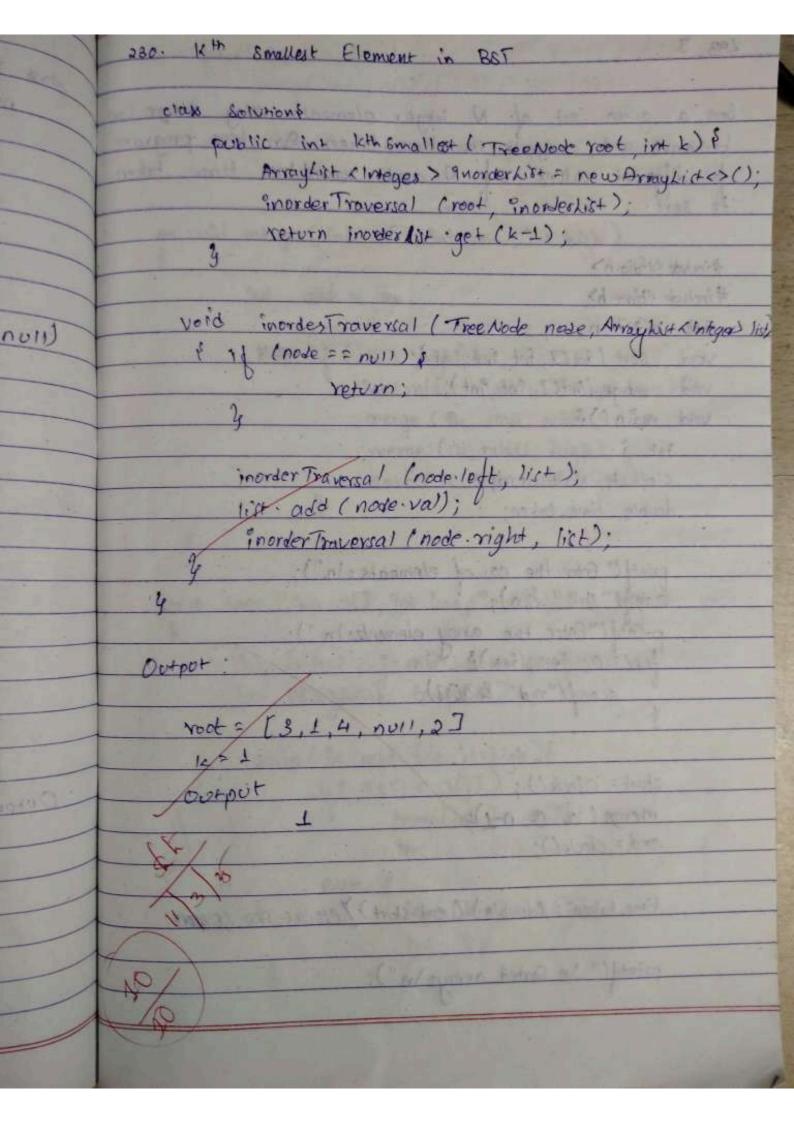
SI No.	Date	Title	Page No.	Sign/ Remarks
1	3/03/2025	Leet Code Programs	1-9	-
		· Minimum deletion to make string bal-	101	120
		· Design Circ gueve · Removing Stars	8	The To
3-1		· Rev. Polish Not. · Winner of Circ Game	YX	130
T-A	1	· Stock using Queve)	
,	11/08/June	Leet Code Programs	7 5	7 (10)
	22/05/1002	· Insertion sort · Sort list · Validate BST	43	3/25
		· Flatten BST to 11 · Next right pointes		
		· 1kth smallest in BST	2	
	a lenhar		10	
2.	18/03/2025	Merge Sort along with time		
		complexity.		
	-	N 11	117 -	#
4.	25/03/2005	Quick Sort along with time	10	
	90,000	complexity	1	
S. San	4 2 2		0	1 1 100
5.	01/04/2025	Primis Algorithm	21	10 200
	1000	Krushkal's Algorithm	2	1/2/
	F-44			1 1
6.	08/04/2005	Floyd's Algorithm	13	O anh
0	COIDTIE	Worshall's Algorithm	1	8/4/10
				11
2		Del Verson la Omblem	1	10 shap
7.	15/04/202		1	15/4/
	The same of	Dijkstra's Algorithm		
-		a decle	1.	10 31
8.	22 /04/20	5 . Topological Sort (DES & source)	1	12/1/2
8.	22 /04/20	· Johnson Trates Algorithm	1	12/4

Ergnature THE Date BIN · Fractional Knapsack 29/04/2025 9-· Additional programs · Hap sort 10. 06/04/2025 · N - queens



public boolean empty() ?

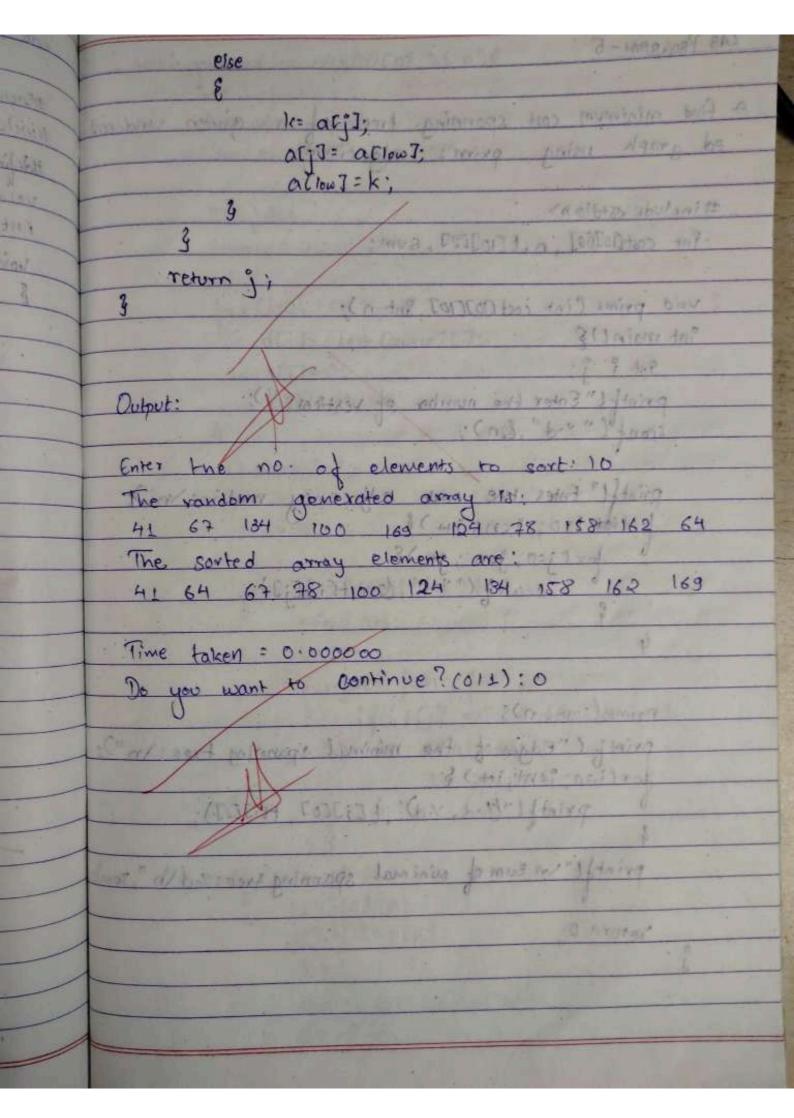
veturn queues. is Empty(); S. - haranes As I soll richtron 3 1 1 cel 1112 Black wholest this thought about stilling A Large Stance of Julies symmetry and shoulded from mother entres made National State of the State of the Asset of the Hospital - Valo covered mark - grow coat . Andread - Trace - Cold Coveres nextal when demais make Ce, 8, 8, 9, 3

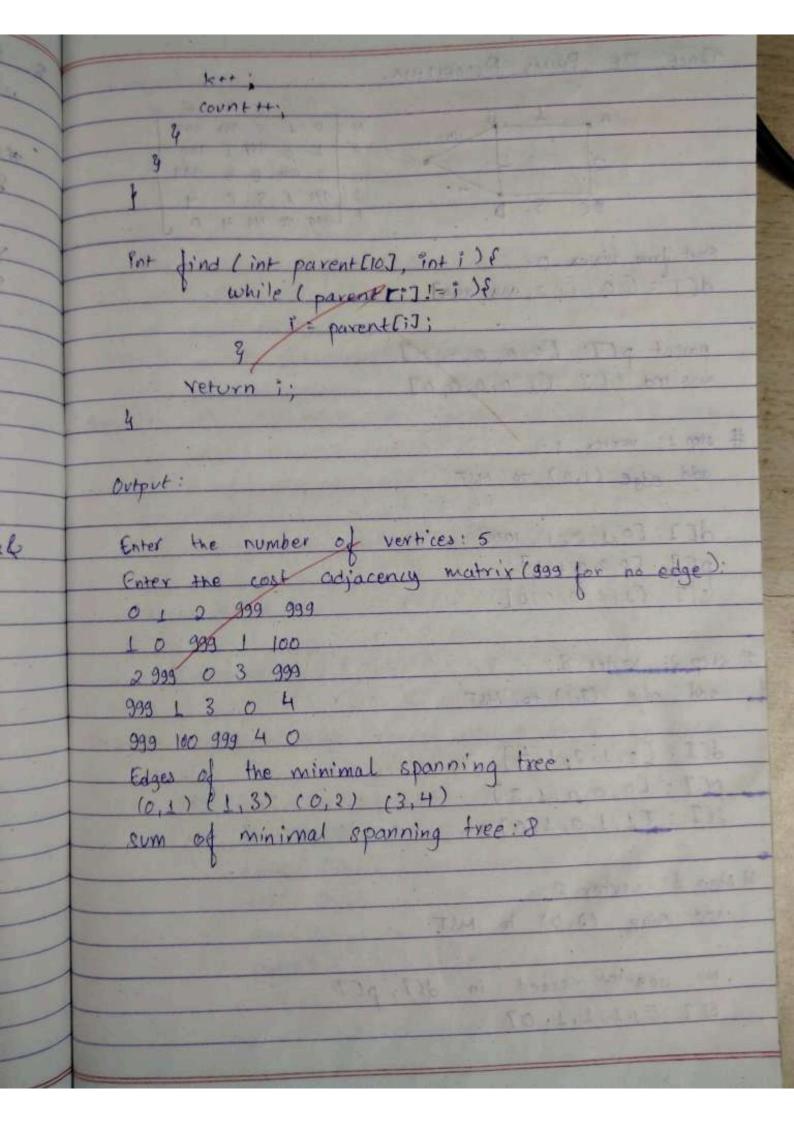


```
for (1=0; icn; 1+1) 3(61m=513) 81 den
erge lar
              printf " In Thre taken to sort = " of In", time taken);
                                IDO FANDANIA
          as void merge (int out), int low, int high)
                  " with a law
                          3 ( 49 addid=> ? e got= ? Ind etes
                  9 ( Apid > worl) for
                          Int mid = low + (high-low)/2:
                         merge ( a, low, mid);
                          merge (a, midts, high);
                         sort (a, low, mid, high);
          void sort ( 9nt all, 9nt low, 9nt mid, 9nt high)
                 Int i= low ;= mid+1, k= low;
                 9nt boogsop temp [n];
                 while ( ix=mid like j(=high) &
if (a[i] < a[j])
                           temp[k++]: a[i];
                       else §
                              temp[k++]= a[j];
                              j++; 3
```

while lie=m)? 1st add (a [i++]); while (jesh) & Ist-add (a [j+]); for(i=0; isls+.size(); i++)\$

ac;+1] = 1st.get(i); merge (a down hear). Maria La King of Alvano · (sad bur, and m) fire? Output: nums = [2,0,2,1,1,0] output: [0,0,1,1,2,2]





find (int parent [10], "int i) f while (parent [1] != i) } = parent[i]; Output: Enter the number of vertices: 5 Enter the cost adjacency matrix (993 for no edge): 1 0 989 1 100 2 999 0 3 999 999 100 999 4 0 Edges of the minimal spanning tree:

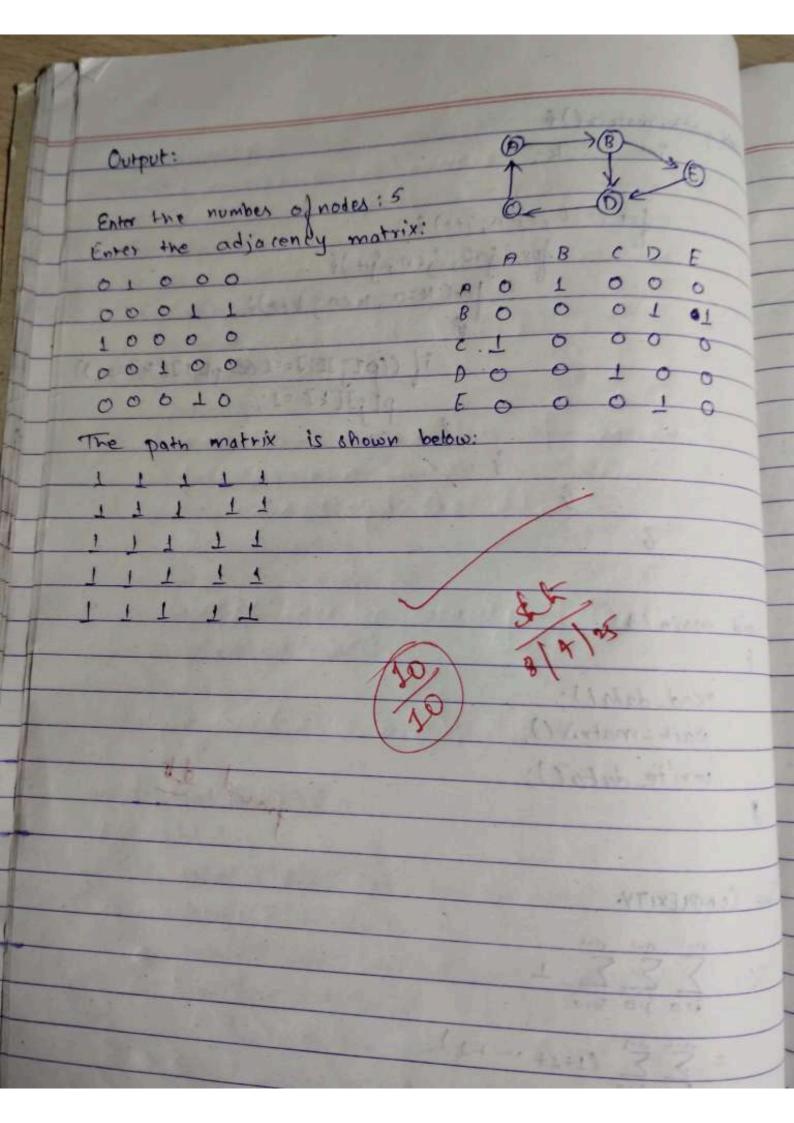
(0,1) (1,3) (0,2) (3,4)

sum of minimal spanning tree: 8 Da 126 or bases thinken on.

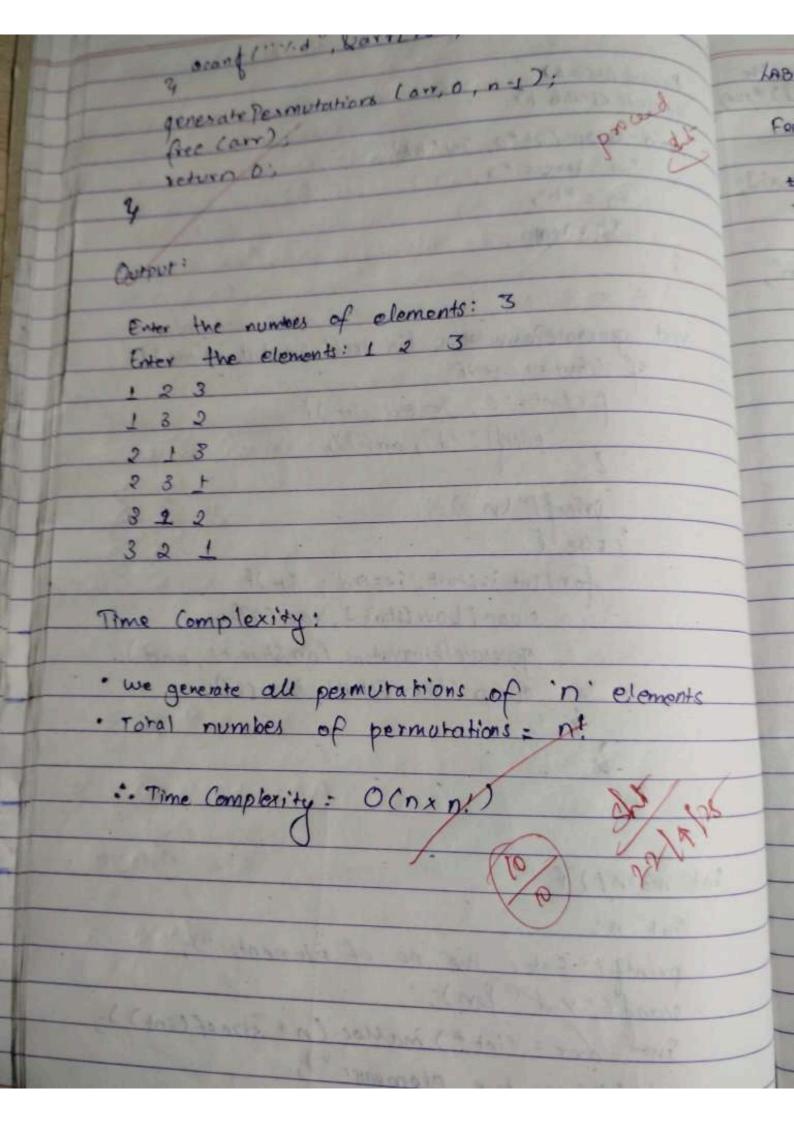
for (k=0; leen; k++) { DEGET = min(DEFIEJ], DEGIKJ+DENJ int min linta, int box else return by 10= \(\sum_{1=0}^{\circ} \sum_{1=0}^{\circ} \sum_{1=0}^{\circ} \)

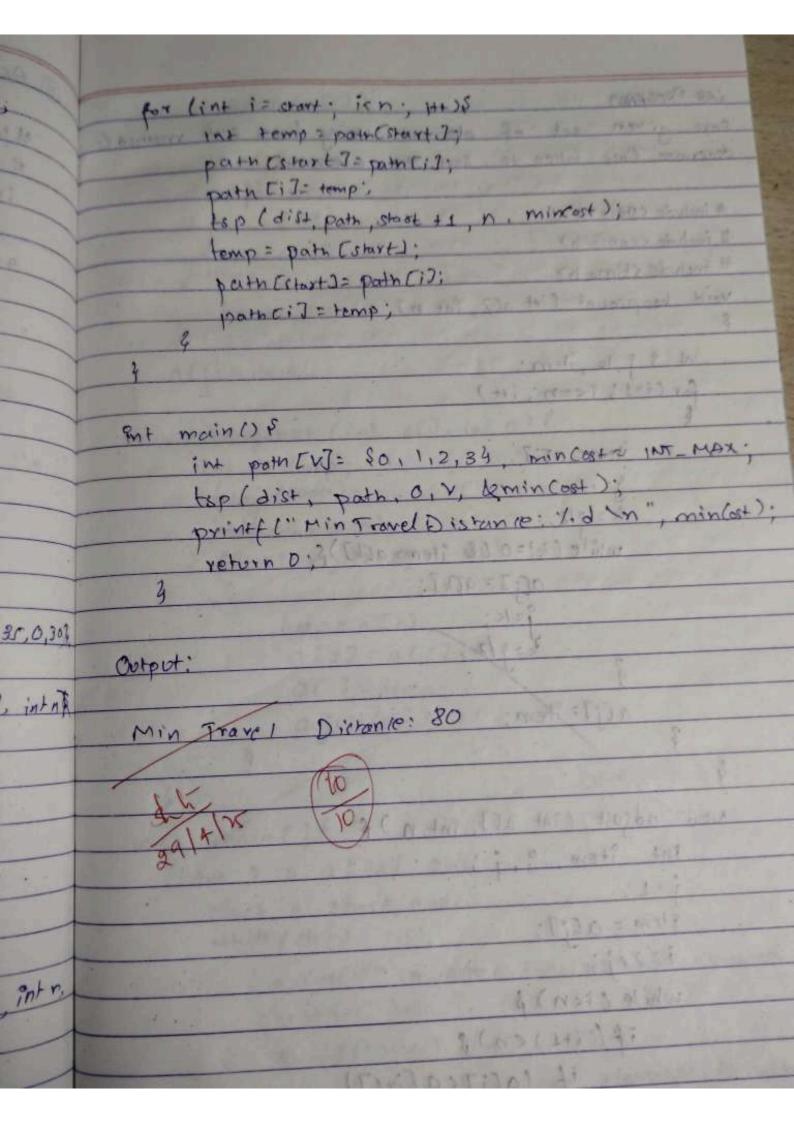
= \(\sum_{1=0}^{\circ} \sum_{1=0}^{\circ} \sum_{1=0}^{\circ} \)

= \(\sum_{1=0}^{\circ} \sum_{1=0}^{\circ} \sum_{1=0}^{\circ} \)



8 WIND 509 BAS Distance vertex 14 1 135 m 58 2 (4 F 15 164 1 5 19 1) 11236 per 1 197 1 10 = 1 control of its





Ent place (int k; sot j) & Int Ti for (i=1; i<k; i+) :+ (a[:]==) 11 (abs (x[:]-j)) == abs(:-b) more return 0; YEAUTO 1; Output: Ever the number of queens; 4 Solution 1: Row 1 --> Column 2 Row 2 ---> column 4 Row 3 ---> Column In the Row 4 ---> Calumn 3 Solution 2! Row 1 ---> Column 3 Row 2 ---> Column 1 Time Complexity: O(n!)