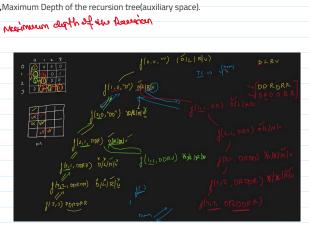
L22 Rat in a Maze Problem - I Monday, June 19, 2023 1:52 PM			
		1). Find all possible paths that the rat can take to reach from	
source to destination. The directions in which the ra rat cannot move to it while value 1 at a cell in the m		Value 0 at a cell in the matrix represents that it is blocked and	
Note: In a path, no cell can be visited more than on Example 1:	e time. If the source cell is 0, the rat cannot move to any	y other cell.	
Input:			
N = 4 m[][] = {{1, 0, 0, 0},	13 Basicalus us Limble Als	us Dath that take	
{1, 1, 0, 1}, {1, 1, 0, 0},	Basicalup we finding the Rode Reauth Sasses to do	assin a licen	G
{0, 1, 1, 1}}			
Output: DDRDRR DRDDRR			
Explanation:			
The rat can reach the destination at (3, 3) from (0, 0) by two paths - DRDDRR			
and DDRDRR, when printed in sorted order we get DDRDRR DRDDRR.			
Example 2: Input:			
N = 2 m[][] = {{1, 0},			
{1, 0}}			
Output: -1			
Explanation: No path exists and destination cell is			
blocked.	# Whought for	aresa	
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		1 1 0 0	
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	* (218, "DD") D) IRV	
		Manage Co.) (2,2, " DRD") DURY
	4(2, 4, "DDR")	DIRY	7 (
1	7	3'	4637 4000011 01011
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N. M.	7		7
uposedila VX	\$ (\$12, "DDR	DR") DLRY	4
Programme 1		Base a ord	\$ (3,2, "DRODE") DLRU
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Beary	gifferent on our	1	and without
	Jus		locum dre
Time Complexity: O(4^(m*n)), beca	ause on every cell we need to try 4 different		visitoel duar
directions.			
Constitution of the second	Doub of the control of the		
Space Complexity: O(m*n), Maxim	num Depth of the recursion tree(auxiliary space	ej.	
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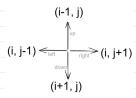
Space Complexity: O(m*p) ,Maximum Depth of the recursion tree(auxiliary space).

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But, writing an individual code for every direction is a lengthy process therefore we truncate the 4 "if statements" into a single for loop using the following approach.



	D	L	R	U
di[]	+1	+0	+0	-1
dj[]	+0	-1	+1	+0

```
art.append(read)
return

**Toffilm (read)

ind in manup(4):

max1 = 1 = 4(ind)

max1 = 7 = 4(ind)

max1 = 7 = 4(ind)

return (read)

valid(s) = 0

valid(s) = 0

valid(s) = 0

valid(s) = 0
rus = [1] for _in recogn(n) for _in recogn(n) condinated is = [1, 1, 6, -1] ] -> x roundy condinated
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