Multi-Dimensional Array related problems (Total 15 questions)

	Problem statement	Difficult levels
WAP that will take 9 intege	ers into a 3 by 3 array (2D) and show them as traditional matrix	*
view.		
Sample input	Sample output	
987654321	987	
	654	
	321	
111222333	111	
	222	
	3 3 3	
WAP that will take (m x n) i and column-wise.	integers into a <i>m by n</i> array (2D) and print them both row-wise	*
Sample input (m,n)	Sample output	
23	Row-wise: 1 2 3 6 5 4	
123	Column-wise: 1 6 2 5 3 4	
654	Column Wisc. 1 0 2 3 3 1	
33	Row-wise: 1 1 1 2 2 2 3 3 3	
1111	Column-wise: 1 2 3 1 2 3 1 2 3	
222		
333		
-	of a 3 by 3 matrix into a 2D array. Now find the determinant of thsisfun.com/algebra/matrix-determinant.html	*
Sample input	Sample output	
123	0	
456		
789		
	of a n sized square matrix into a 2D array. Now show all the	*

	Sample input	Sample output	
	5	Major diagonal: 1 4 2 9 4	
	12345	Minor diagonal: 5 2 2 7 1	
	54321		
	22222		
	67890		
	19374		
5.	WAP that will take the size of a	n identity matrix from the user and generate the identity	*
	matrix into a 2D array. Finally d	isplay it. Reference: http://en.wikipedia.org/wiki/Identity matrix	
	Sample input	Sample output	
	5	10000	
		01000	
	1	00100	
		00010	
		00010	
		00001	
_	MAP that will take inputs of two		*
6.	VVAI that will take inputs of two	o <i>m x n</i> sized matrix into two 2D array, suppose A and B.	I
6.		o <i>m x n</i> sized matrix into two 2D array, suppose A and B. v all the elements from matrix / 2D array C.	
6.		y all the elements from matrix / 2D array C.	
6.	Now do C = A + B. Finally displa Sample input	y all the elements from matrix / 2D array C. Sample output	
6.	Now do C = A + B. Finally displa	y all the elements from matrix / 2D array C.	
6.	Now do C = A + B. Finally displa Sample input	y all the elements from matrix / 2D array C. Sample output	
6.	Now do C = A + B. Finally displa Sample input 2 3	y all the elements from matrix / 2D array C. Sample output 2 3 4	
6.	Now do C = A + B. Finally displa Sample input 2 3 1 2 3	y all the elements from matrix / 2D array C. Sample output 2 3 4	
6.	Now do C = A + B. Finally displa Sample input 2 3 1 2 3 2 3 4	y all the elements from matrix / 2D array C. Sample output 2 3 4	
6.	Now do C = A + B. Finally displa Sample input 2 3 1 2 3 2 3 4 1 1 1	y all the elements from matrix / 2D array C. Sample output 2 3 4	
6.	Now do C = A + B. Finally displa Sample input 2 3 1 2 3 2 3 4 1 1 1	y all the elements from matrix / 2D array C. Sample output 2 3 4	
7.	Now do C = A + B. Finally displa Sample input 2 3 1 2 3 2 3 4 1 1 1 2 2 2	y all the elements from matrix / 2D array C. Sample output 2 3 4	***
	Now do C = A + B. Finally displa Sample input 2 3 1 2 3 2 3 4 1 1 1 2 2 2 WAP that will take inputs of two	Sample output 2 3 4 4 5 6	***
	Sample input 2 3 1 2 3 2 3 4 1 1 1 2 2 2 WAP that will take inputs of two do C = A * B (multiplication). Fire	Sample output 2 3 4 4 5 6 o 3 x 3 sized matrix into two 2D array, suppose A and B. Now hally display all the elements from matrix / 2D array C.	***
	Now do C = A + B. Finally displa Sample input 2 3 1 2 3 2 3 4 1 1 1 2 2 2 WAP that will take inputs of two	Sample output 2 3 4 4 5 6 o 3 x 3 sized matrix into two 2D array, suppose A and B. Now	***
	Now do C = A + B. Finally displa Sample input 2 3 1 2 3 2 3 4 1 1 1 2 2 2 WAP that will take inputs of two do C = A * B (multiplication). Fin	Sample output 2 3 4 4 5 6 o 3 x 3 sized matrix into two 2D array, suppose A and B. Now hally display all the elements from matrix / 2D array C. Sample output 9 9 9	***
	Sample input 2 3 1 2 3 2 3 4 1 1 1 2 2 2 WAP that will take inputs of two do C = A * B (multiplication). Fin Sample input 1 2 3 4 5 6	Sample output 2 3 4 4 5 6 O 3 x 3 sized matrix into two 2D array, suppose A and B. Now hally display all the elements from matrix / 2D array C. Sample output 9 9 9 24 24 24 24	***
	Sample input 23 123 234 111 222 WAP that will take inputs of two do C = A * B (multiplication). Fine Sample input 123 456 789	Sample output 2 3 4 4 5 6 o 3 x 3 sized matrix into two 2D array, suppose A and B. Now hally display all the elements from matrix / 2D array C. Sample output 9 9 9	***
	Sample input 2 3 1 2 3 2 3 4 1 1 1 2 2 2 WAP that will take inputs of two do C = A * B (multiplication). Fin Sample input 1 2 3 4 5 6 7 8 9 2 2 2	Sample output 2 3 4 4 5 6 O 3 x 3 sized matrix into two 2D array, suppose A and B. Now hally display all the elements from matrix / 2D array C. Sample output 9 9 9 24 24 24 24	***
	Sample input 23 123 234 111 222 WAP that will take inputs of two do C = A * B (multiplication). Fine Sample input 123 456 789 222 222	Sample output 2 3 4 4 5 6 O 3 x 3 sized matrix into two 2D array, suppose A and B. Now hally display all the elements from matrix / 2D array C. Sample output 9 9 9 24 24 24 24	***
	Sample input 2 3 1 2 3 2 3 4 1 1 1 2 2 2 WAP that will take inputs of two do C = A * B (multiplication). Fin Sample input 1 2 3 4 5 6 7 8 9 2 2 2	Sample output 2 3 4 4 5 6 O 3 x 3 sized matrix into two 2D array, suppose A and B. Now hally display all the elements from matrix / 2D array C. Sample output 9 9 9 24 24 24 24	***
	Sample input 23 123 234 111 222 WAP that will take inputs of two do C = A * B (multiplication). Fine Sample input 123 456 789 222 222	Sample output 2 3 4 4 5 6 O 3 x 3 sized matrix into two 2D array, suppose A and B. Now hally display all the elements from matrix / 2D array C. Sample output 9 9 9 24 24 24 24	***
	Sample input 23 123 234 111 222 WAP that will take inputs of two do C = A * B (multiplication). Fin Sample input 123 456 789 222 222 111	Sample output 2 3 4 4 5 6 O 3 x 3 sized matrix into two 2D array, suppose A and B. Now hally display all the elements from matrix / 2D array C. Sample output 9 9 9 24 24 24 24	***

Sami	ple input	Sample output	
33	pic input	Max: 9	
123		Location: [2][1]	
456		Location. [2][1]	
292			
23		Max: 9	
987		Location: [0][0]	
345		Location. [0][0]	
343			
		o a square matrix of dimension n (where n must he integers at first row, last row and two	**
diago	nals without overlap. Please see the sa	mple input-output.	
Sam	ple input	Sample output	
5 1 2 3 2 3 4 3 4 9 4 2 6 5 4 3	1 1 6 6 7 6 7 8	52	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1111 1111 1111 1111 1111 1111 1111	23	

	Sample input	Sample output		
	must be an odd number). Then calculate sum pattern (consider only the boxed position du	31		
10.	WAP that will take (n x n) integer inputs into a square matrix of dimension n (where n			

	5 1 2 3 4 5 2 3 4 1 6 3 4 9 6 7 4 2 6 7 8	71	
	5 4 3 2 1 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1	25	
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
11.	WAP that will take (n x n) integer inputs into		**
	must be an odd number). Then calculate sur pattern (consider only the boxed position do	m of the integers based on following position	
	, , , , , , , , , , , , , , , , , , , ,	uring the sum). Please see the input-output.	
	Sample input	Sample output	
	Sample input 5 1 2 3 4 5 2 3 4 1 6 3 4 9 6 7 4 2 6 7 8	Sample output	

12.	WAP that will take (m x n) integer inputs into a matrix of dimension m x n. Now reverse
	that matrix within itself and display it. Reversal means swap 1st column with the nth
	column, swap 2 nd column with the (n-1) th column and so on

**

Sample input	Sample output
33	321

	1 2 3	654	
	456	292	
	292	232	
	26	654321	
	123456	456789	
	987654	430703	
	387034		
13.		ger inputs into a square matrix of dimension n. Now	**
	determine whether the matrix	is symmetric or not.	
	Reference: http://en.wikipedia.	org/wiki/Symmetric_matrix	
	Sample input	Sample output	
	3	Yes	
	1 7 3	163	
	7 4 5		
	3 5 6		
	2	No	
	1 3	NO .	
	4 2		
14.	· ·	itive integer inputs into a matrix of dimension m x n. Now ers by -1 in that matrix. Finally display it.	***
14.	· ·		***
14.	replace all the duplicate intege	ers by -1 in that matrix. Finally display it.	***
14.	replace all the duplicate integers	ers by -1 in that matrix. Finally display it. Sample output	***
14.	replace all the duplicate integers Sample input 3 3	Sample output 1 7 3	***
14.	replace all the duplicate integers Sample input 3 3 1 7 3	Sample output 1 7 3 -1 4 5	***
14.	replace all the duplicate integers Sample input 3 3 1 7 3 7 4 5	Sample output 1 7 3 -1 4 5	***
14.	replace all the duplicate integers Sample input 3 3 1 7 3 7 4 5 3 5 6	Sample output 1 7 3 -1 4 5 -1-1 6	***
14.	replace all the duplicate integers Sample input 3 3 1 7 3 7 4 5 3 5 6 2 6	Sample output 1 7 3 -1 4 5 -1-1 6	***
14.	replace all the duplicate integers Sample input 3 3 1 7 3 7 4 5 3 5 6 2 6 2 6 2 2 2 2 2	Sample output 1 7 3 -1 4 5 -1-1 6	***
14.	replace all the duplicate integers Sample input 3 3 1 7 3 7 4 5 3 5 6 2 6 2 6 2 2 2 2 2	Sample output 1 7 3 -1 4 5 -1-1 6	***
14.	replace all the duplicate integers Sample input 3 3 1 7 3 7 4 5 3 5 6 2 6 2 6 2 2 2 2 2	Sample output 1 7 3 -1 4 5 -1-1 6	***
14.	replace all the duplicate integers Sample input 3 3 1 7 3 7 4 5 3 5 6 2 6 2 6 2 2 2 2 2	Sample output 1 7 3 -1 4 5 -1-1 6	***
14.	replace all the duplicate integers Sample input 3 3 1 7 3 7 4 5 3 5 6 2 6 2 6 2 2 2 2 2	Sample output 1 7 3 -1 4 5 -1-1 6	***
14.	replace all the duplicate integers Sample input 3 3 1 7 3 7 4 5 3 5 6 2 6 2 6 2 2 2 2 2	Sample output 1 7 3 -1 4 5 -1-1 6	***
14.	replace all the duplicate integers Sample input 3 3 1 7 3 7 4 5 3 5 6 2 6 2 6 2 2 2 2 2	Sample output 1 7 3 -1 4 5 -1-1 6	***

15.	simply add all the integers in that matrix and show the result.		
	Sample input	Sample output	
	3 3	41	
	1 7 3		
	7 4 5		
	3 5 6		

26	33	
2 2 2 2 2 2		
6 5 4 3 2 1		