Multi-Dimensional Array related problems (Total 15 questions)

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

5 1 2 3 4 5 5 4 3 2 1 2 2 2 2 2 6 7 8 9 0 1 9 3 7 4 WAP that will take the size of an identity matrix fr matrix into a 2D array. Finally display it. Reference Sample input 5 10 01 00 00 00 00 WAP that will take inputs of two m x n sized matrix Now do C = A + B. Finally display all the elements	http://en.wikipedia.org/wiki/Identity_matrix hple output 0 0 0 1 0 0 0 1 0 0 0 1 x into two 2D array, suppose A and B. *
1 2 3 4 5	* com the user and generate the identity e: http://en.wikipedia.org/wiki/Identity matrix nple output 0 0 0 0 0 0 1 0 0 0 1 0 0 1 0 0 0 1 ex into two 2D array, suppose A and B. from matrix / 2D array C. * * * * * * * * * * * * *
Sample input WAP that will take the size of an identity matrix fr matrix into a 2D array. Finally display it. Reference Sample input Sample input Sample input WAP that will take inputs of two m x n sized matrix Now do C = A + B. Finally display all the elements Sample input Sample input Sample input Sample input 2 3 1 2 3 2 3 4 1 1 1	* * * * * * * * * * * * * * * * * * *
WAP that will take the size of an identity matrix fr matrix into a 2D array. Finally display it. Reference Sample input Sample input WAP that will take inputs of two m x n sized matrix Now do C = A + B. Finally display all the elements Sample input Sample input	http://en.wikipedia.org/wiki/Identity_matrix hple output 0 0 0 0 0 0 1 0 0 0 1 0 0 0 1 x into two 2D array, suppose A and B. from matrix / 2D array C.
WAP that will take the size of an identity matrix from matrix into a 2D array. Finally display it. References Sample input Sample input WAP that will take inputs of two m x n sized matrix Now do C = A + B. Finally display all the elements Sample input 23 23 123 234 111	http://en.wikipedia.org/wiki/Identity_matrix hple output 0 0 0 0 0 0 1 0 0 0 1 0 0 0 1 x into two 2D array, suppose A and B. from matrix / 2D array C.
WAP that will take the size of an identity matrix fr matrix into a 2D array. Finally display it. Reference Sample input Sample input Sample input WAP that will take inputs of two m x n sized matrix Now do C = A + B. Finally display all the elements Sample input Sample input Sample input 23 123 234 111	http://en.wikipedia.org/wiki/Identity_matrix hple output 0 0 0 0 0 0 1 0 0 0 1 0 0 0 1 x into two 2D array, suppose A and B. from matrix / 2D array C.
Sample input Sample input Sample input Sample input Sample input WAP that will take inputs of two m x n sized matrix Now do C = A + B. Finally display all the elements Sample input Sample input Sample input Sample input 23 123 234 111	http://en.wikipedia.org/wiki/Identity_matrix hple output 0 0 0 0 0 0 1 0 0 0 1 0 0 0 1 x into two 2D array, suppose A and B. from matrix / 2D array C.
Sample input Sample input Sample input Sample input Sample input WAP that will take inputs of two m x n sized matrix Now do C = A + B. Finally display all the elements Sample input Sample input Sample input Sample input 23 123 234 111	http://en.wikipedia.org/wiki/Identity_matrix hple output 0 0 0 0 0 0 1 0 0 0 1 0 0 0 1 x into two 2D array, suppose A and B. from matrix / 2D array C.
5	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
WAP that will take inputs of two m x n sized matrix Now do C = A + B. Finally display all the elements Sample input 2 3 2 3 1 2 3 2 3 4 1 1 1	0 0 0 1 0 0 0 1 0 0 0 1 x into two 2D array, suppose A and B. from matrix / 2D array C.
WAP that will take inputs of two m x n sized matrix Now do C = A + B. Finally display all the elements. Sample input 2 3 1 2 3 2 3 4 1 1 1	1 0 0 0 1 0 0 0 1 x into two 2D array, suppose A and B. from matrix / 2D array C.
WAP that will take inputs of two m x n sized matrix. Now do C = A + B. Finally display all the elements. Sample input 2 3 1 2 3 2 3 4 1 1 1	0 1 0 0 0 1 x into two 2D array, suppose A and B. from matrix / 2D array C.
WAP that will take inputs of two <i>m x n</i> sized matrix Now do C = A + B. Finally display all the elements. Sample input 2 3 1 2 3 2 3 4 1 1 1	x into two 2D array, suppose A and B. from matrix / 2D array C.
WAP that will take inputs of two m x n sized matrix. Now do C = A + B. Finally display all the elements. Sample input 2 3 1 2 3 2 3 4 1 1 1	x into two 2D array, suppose A and B. * from matrix / 2D array C.
WAP that will take inputs of two m x n sized matrix. Now do C = A + B. Finally display all the elements. Sample input 2 3 1 2 3 2 3 4 1 1 1	x into two 2D array, suppose A and B. * from matrix / 2D array C.
23 123 234 111	
1 2 3 2 3 4 1 1 1	
234	
111	
	vinto two 2D array suppose A and R. Now ***
WAP that will take inputs of two 3×3 sized matrix do $C = A * B$ (multiplication). Finally display all the	tillo two 2D allay, suppose A alla B. Now
	nple output
123 99	_
456 242	9
789	9 24 24
2 2 2	24 24
456 242	9

NA/A D About will be be in mute of m	and the second s	*
element with index locationfr	n x n sized matrix into a 2D array and find the maximum from that matrix	-
Ciement with mack locations	on that matrix.	
Sample input	Sample output	
3 3	Max: 9	
123	Location: [2][1]	
456		
292		
2 3	Max: 9	
987	Location: [0][0]	
3 4 5		
WAP that will take (n x n) inte	ger inputs into a square matrix of dimension n (where n m	ust **
be an odd number). Then cald	culate sum of the integers at first row, last row and two	
	ease see the sample input-output.	
	·	
Sample input	Sample output	
5	52	
12345		
23416		
3 4 9 6 7		
42678		
54321		
7	23	
1111111		
1111111		
1111111		
1111111		
1111111		
111111		
		_

10.	WAP that will take (n x n) integer input	s into a square matrix of dimension n (where n	**
	must be an odd number). Then calculate	te sum of the integers based on following position	
	pattern (consider only the boxed positi	ion during the sum). Please see the input-output.	
	Sample input	Sample output	
	5	71	
	12345		
	23416		
	3 4 9 6 7		
	42678		
	54321		
	_		
	7	25	
	1111111		
	1111111		
	1111111		
	1111111		
	1111111		
	1111111		
	1111111		
11.	WAP that will take (n x n) integer input	s into a square matrix of dimension n (where n	**
		te sum of the integers based on following position	
		ion during the sum). Please see the input-output.	
	passes (constant on) and action posts	G Carry	
	Sample input	Sample output	**
	5	65	
	12345		**
	23416		
	3 4 9 6 7		
	42678		
	54321		
	7	33	
	1 1 1 1 1 1 1		

Sample input	Sample output	
3 3	3 2 1	
123	6 5 4	
4 5 6	292	
292		
2 6	654321	
123456	456789	
		1 1
	eger inputs into a square matrix of dimension n. Now	**
WAP that will take (n x n) int determine whether the matr	rix is symmetric or not.	**
WAP that will take (n x n) int determine whether the matr	rix is symmetric or not.	**
WAP that will take (n x n) int determine whether the matr Reference: <u>http://en.wikipedi</u>	rix is symmetric or not. ia.org/wiki/Symmetric_matrix	**
WAP that will take (n x n) int determine whether the matr Reference: http://en.wikipedi Sample input	rix is symmetric or not. ia.org/wiki/Symmetric matrix Sample output	**
WAP that will take (n x n) into determine whether the matro Reference: http://en.wikipedi Sample input 3 1 7 3 7 4 5	rix is symmetric or not. ia.org/wiki/Symmetric matrix Sample output	**
WAP that will take (n x n) interested the mater than the material	rix is symmetric or not. ia.org/wiki/Symmetric matrix Sample output	**
WAP that will take (n x n) interested the mater the mater the mater the mater the mater than the material than the	rix is symmetric or not. ia.org/wiki/Symmetric matrix Sample output	**
WAP that will take (n x n) interested the matron of the control of	Sample output Yes	**
VAP that will take (n x n) inteletermine whether the matr Reference: http://en.wikipedi Sample input 3 1 7 3 7 4 5 3 5 6 2	Sample output Yes	**

Sample input	Sample output	
3 3	1 7 3	
1 7 3	-1 4 5	
7 4 5	-1 -1 6	
3 5 6		
2 6	2 -1 -1 -1 -1	
2 2 2 2 2 2	6 5 4 3 -1 1	
6 5 4 3 2 1		

Sample input	Sample output	
3 3	41	
L 7 3		
7 4 5		
3 5 6		
2 6	33	
2 2 2 2 2 2		
6 5 4 3 2 1		