Multi-Dimensional Array related problems (Total 15 questions)

SL	Problem statement	Difficulty
		levels

Sample input	Sample output	
987654321	987	
	654	
	3 2 1	
111222333	111	
	222	
	3 3 3	
WAP that will take (m x n) inte and column-wise.	gers into a <i>m by n</i> array (2D) and print them both row-wise	*
Sample input (m,n)	Sample output	
2 3	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		
333		
	3 by 3 matrix into a 2D array. Now find the determinant of sfun.com/algebra/matrix-determinant.html Sample output	*
Sample input	0	
Sample input 1 2 3	i i	
123		

Sample input	Sample output	
5	Major diagonal: 1 4 2 9 4	
12345	Minor diagonal: 5 2 2 7 1	
54321	miler diagonal 3 2 2 7 2	
2222		
67890		
19374		
13374		
	an identity matrix from the user and generate the identity	*
matrix into a 2D array. Finally	display it. Reference: http://en.wikipedia.org/wiki/Identity matrix	
Sample input	Sample output	
5	10000	
	01000	
	00100	
	00010	
	00001	
-	vo <i>m x n</i> sized matrix into two 2D array, suppose A and B. ay all the elements from matrix / 2D array C.	*
Now do C = A + B. Finally display Sample input	ay all the elements from matrix / 2D array C. Sample output	*
Now do C = A + B. Finally display Sample input 2 3	Sample output 2 3 4	*
Now do C = A + B. Finally display Sample input 2 3 1 2 3	ay all the elements from matrix / 2D array C. Sample output	*
Now do C = A + B. Finally display Sample input 2 3 1 2 3 2 3 4	Sample output 2 3 4	*
Sample input 2 3 1 2 3 2 3 4 1 1 1	Sample output 2 3 4	*
Now do C = A + B. Finally display Sample input 2 3 1 2 3 2 3 4	Sample output 2 3 4	*
Sample input 2 3 1 2 3 2 3 4 1 1 1 2 2 2 WAP that will take inputs of tv	Sample output 2 3 4	***
Sample input 2 3 1 2 3 2 3 4 1 1 1 2 2 2 WAP that will take inputs of tv	Sample output 2 3 4 4 5 6 vo 3 x 3 sized matrix into two 2D array, suppose A and B. Now	
Sample input 2 3 1 2 3 2 3 4 1 1 1 2 2 2 WAP that will take inputs of two C = A * B (multiplication). F	Sample output 2 3 4 4 5 6 vo 3 x 3 sized matrix into two 2D array, suppose A and B. Now inally display all the elements from matrix / 2D array C.	
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). F Sample input	Sample output 2 3 4 4 5 6 vo 3 x 3 sized matrix into two 2D array, suppose A and B. Now inally display all the elements from matrix / 2D array C. Sample output	
Sample input 2 3 1 2 3 2 3 4 1 1 1 2 2 2 WAP that will take inputs of two C = A * B (multiplication). F Sample input 1 2 3	Sample output 2 3 4 4 5 6 vo 3 x 3 sized matrix into two 2D array, suppose A and B. Now inally display all the elements from matrix / 2D array C. Sample output 9 9 9	
Sample input 23 123 234 111 222 WAP that will take inputs of two do C = A * B (multiplication). F Sample input 123 456	Sample output 2 3 4 4 5 6 vo 3 x 3 sized matrix into two 2D array, suppose A and B. Now inally display all the elements from matrix / 2D array C. Sample output 9 9 9 24 24 24	
Sample input 23 123 234 111 222 WAP that will take inputs of two C = A * B (multiplication). F Sample input 123 456 789	Sample output 2 3 4 4 5 6 vo 3 x 3 sized matrix into two 2D array, suppose A and B. Now inally display all the elements from matrix / 2D array C. Sample output 9 9 9 24 24 24	

	om that matrix.	
Sample input	Sample output	
3 3	Max: 9	
123	Location: [2][1]	
4 5 6		
292		
2 3	Max: 9	
987	Location: [0][0]	
3 4 5		
WAP that will take (n x n) integ	ger inputs into a square matrix of dimension n (where n must	**
	ulate sum of the integers at first row, last row and two	
diagonals without overlap. Plea	ase see the sample input-output.	
Sample input	Sample output	
5	52	
 		
12345		
12345 23416		
23416 34967		
23416 34967 42678		
23416 34967		
23416 34967 42678 54321	23	
23416 34967 42678 54321 7 1111111	23	
23416 34967 42678 54321 7 1111111 1111111	23	
23416 34967 42678 54321 7 1111111 1111111	23	
23416 34967 42678 54321 7 1111111 1111111 1111111	23	
23416 34967 42678 54321 7 1111111 1111111 1111111 1111111	23	
23416 34967 42678 54321 7 1111111 1111111 1111111 1111111 111111	23	
23416 34967 42678 54321 7 1111111 1111111 1111111 1111111	23	

must be an odd number). Then calculate sum of the integers based on following position pattern (consider only the boxed position during the sum). Please see the input-output.

Sample input 5 1 2 3 4 5 2 3 4 1 6 3 4 9 6 7 4 2 6 7 8 5 4 3 2 1	Sample output 71
7 1111111 111111 1111111 111111 111111	25

WAP that will take (n x n) integer inputs into a square matrix of dimension n (where n must be an odd number). Then calculate sum of the integers based on following position pattern (consider only the boxed position during the sum). Please see the input-output.

Sample input Sample output

Sample input	Sample output	
3 3	321	
123	6 5 4	
456	292	
292		
2 6	654321	
123456	456789	
987654		
WAP that will take (n x n) integ determine whether the matrix Reference: http://en.wikipedia.	•	**
Sample input	Sample output	
3	Yes	
173		
7 4 5		
3 5 6		
2	No	
1 3		
4 2		
	itive integer inputs into a matrix of dimension m x n. l ers by -1 in that matrix. Finally display it.	Now ***
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 -1 -1 -1 -1	
3 5 6	6 5 4 3-1 1	
	0 3 4 3-1 1	
26	0 3 4 3-1 1	

15 .	WAP that will take (m x n) integer inputs into a matrix of dimension m x n. Now just	*

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