Array related problems (total 15 questions)

SL		Problem statement	Difficulty levels
1.	WAP that will take n integer n reverse order (from the last va	umbers into an array, and then print all the integers into liid index to index 0).	*
	Sample input	Sample output	
	5 1 2 3 4 5	5 4 3 2 1	
	6 2 8 3 9 0 1	1 0 9 3 8 2	
2.	that array.	umbers into an array, and then sum up all the integers in	*
	Sample input	Sample output	
	5 1 2 3 4 5	15	
	6 2 8 3 9 0 1	23	
3.	WAP that will take n integer numbers into an array, and then sum up all the even integers in that array.		*
	Sample input	Sample output	
	1 2 3 4 5	6	
	6 283901	10	
	WADAhatasillada		*
4.	WAP that will take n integer numbers into an array, and then sum up all the even indexed integers in that array.		,
	Sample input	Sample output	
	5 1 2 3 4 5	9	
	6 2 8 3 9 0 1	5	

	Sample output]
5	5 4 3 2 1	
1 2 3 4 5		_
6	1 0 9 3 8 2	
283901		
WAP that will take n integer numbers into an array, and then find the maximum - minimum among them with its index position.		**
Sample input	Sample output]
5	Max: 5, Index: 4	
1 2 3 4 5	Min: 1, Index: 0	
6	Max: 9, Index: 3	
283901	Min: 0, Index: 4] [
Sample input	Sample output	
7	Count: 5	= 1
	Count. 5	
AKIOUEH		- - -
AKIOUEH 29	Count: 13 TIONALUNIVERSITY	
AKIOUEH 29	Count: 13	
AKIOUEH 29 UNITEDINTERNAT WAP that will take	Count: 13	*
AKIOUEH 29 UNITEDINTERNAT WAP that will take	Count: 13 TIONALUNIVERSITY e n integers into an array, and then search a number into that array. If	*
AKIOUEH 29 UNITEDINTERNAT WAP that will take found then print it	Count: 13 TIONALUNIVERSITY In integers into an array, and then search a number into that array. If its index. If not found then print "NOT FOUND".	*
AKIOUEH 29 UNITEDINTERNAT WAP that will take found then print it Sample input 8 78132643	Count: 13 TIONALUNIVERSITY en integers into an array, and then search a number into that array. If its index. If not found then print "NOT FOUND". Sample output	*
AKIOUEH 29 UNITEDINTERNAT WAP that will take found then print it Sample input 8 78132643 3	Count: 13 TIONALUNIVERSITY In integers into an array, and then search a number into that array. If its index. If not found then print "NOT FOUND". Sample output FOUND at index position: 3, 7	*
AKIOUEH 29 UNITEDINTERNAT WAP that will take found then print it Sample input 8 78132643	Count: 13 TIONALUNIVERSITY en integers into an array, and then search a number into that array. If its index. If not found then print "NOT FOUND". Sample output	*

	Sample input	Sample output	
	8	Array A: 78132643	
	78132643	Array B: 3 4 6 2 3 1 8 7	
	3	Array A : 3 2 1	
	321	Array B : 1 2 3	
•	WAP that will first take n integers into an array A and then m integers into array B. Now swap all elements between array A and B. Finally show all elements of both array A and B.		**
	Sample input	Sample output	
	8	Array A : 3 2 1	
	78132643	Array B: 78132643	
	3		
	3 3 2 1		
	3 2 1 WAP that will take n positive i	ntegers into an array A. Now find all the integers that are	*
1.	WAP that will take n positive i divisible by 3 and replace then	n by -1 in array A. Finally show all elements of array A.	*
1.	3 2 1 WAP that will take n positive i		*
l.	WAP that will take n positive i divisible by 3 and replace then Sample input 8 78132643	n by -1 in array A. Finally show all elements of array A. Sample output	*
L.	WAP that will take n positive i divisible by 3 and replace then Sample input 8 78132643	Sample output 781-12-14-1	*
2.	WAP that will take n positive i divisible by 3 and replace then Sample input 8 78132643 3 321	Sample output 7 8 1 -1 2 -1 4 -1 -1 2 1 nto an array A. Now sort them in ascending order within ments of array A.	***
	WAP that will take n positive i divisible by 3 and replace then Sample input 8 78132643 3 321 WAP that will take n integers i that array. Finally show all ele	Sample output 7 8 1 -1 2 -1 4 -1 -1 2 1 nto an array A. Now sort them in ascending order within ments of array A.	
	WAP that will take n positive i divisible by 3 and replace then Sample input 8 78132643 3 321 WAP that will take n integers i that array. Finally show all eler Reference: http://en.wikipedia.	Sample output 7 8 1 -1 2 -1 4 -1 -1 2 1 nto an array A. Now sort them in ascending order within ments of array A. org/wiki/Bubble_sort	
	WAP that will take n positive i divisible by 3 and replace then Sample input 8 78132643 3 321 WAP that will take n integers i that array. Finally show all eler Reference: http://en.wikipedia. Sample input 8	Sample output 7 8 1 -1 2 -1 4 -1 -1 2 1 nto an array A. Now sort them in ascending order within ments of array A. Sample output Sample output Sample output	

Sample input 8	Campala innut	Compute output	-
2 8 1 3 2 6 4 3 3 3 3 3 3 4 4 67 8 9 WAP that will take n integers into an array A and m positive integers into array B. Now and the intersection (set operation) of array A and B. Sample input 8 12 6 3 7 8 1 5 2 6 4 3 6 13 6 0 9 2 3 Empty set WAP that will take n integers into an array A and m positive integers into array B. Now and the union (set operation) of array A and B. Sample input 8 7 8 1 5 2 6 4 3 0 9 7 8 1 5 2 6 4 3 0 9 7 8 1 5 2 6 4 3 0 9 7 8 1 5 2 6 4 3 0 9 7 8 1 5 2 6 4 3 0 9 7 8 1 5 2 6 4 3 0 9			
3 3 3 3 4 6 78 9 WAP that will take n integers into an array A and m positive integers into array B. Now and the intersection (set operation) of array A and B. Sample input 8 12 6 3 7 8 1 5 2 6 4 3 6 13 6 0 9 2 3 Empty set WAP that will take n integers into an array A and m positive integers into array B. Now and the union (set operation) of array A and B. Sample input 8 7 8 1 5 2 6 4 3 6 7 8 1 5 2 6 4 3		281364	
3 3 3 4 6 7 8 9 6 7 8 9 WAP that will take n integers into an array A and m positive integers into array B. Now nd the intersection (set operation) of array A and B. Sample input 8 12 6 3 7 8 1 5 2 6 4 3 6 13 6 0 9 2 3 Empty set WAP that will take n integers into an array A and m positive integers into array B. Now nd the union (set operation) of array A and B. Sample input 8 7 8 1 5 2 6 4 3 0 9 7 8 1 5 2 6 4 3 0 9 7 8 1 5 2 6 4 3 0 9 1 2 3 4 5			
4 6 7 8 9 WAP that will take n integers into an array A and m positive integers into array B. Now nd the intersection (set operation) of array A and B. Sample input 8 12 6 3 7 8 1 5 2 6 4 3 6 13 6 0 9 2 3 Empty set WAP that will take n integers into an array A and m positive integers into array B. Now nd the union (set operation) of array A and B. Sample input 8 7 8 1 5 2 6 4 3 6 7 8 1 5 2 6 4 3 6 13 6 0 9 2 3 12 3 4 5		3	
WAP that will take n integers into an array A and m positive integers into array B. Now nd the intersection (set operation) of array A and B. Sample input 8 7 8 1 5 2 6 4 3 6 1 3 6 0 9 2 3 WAP that will take n integers into an array A and m positive integers into array B. Now nd the union (set operation) of array A and m positive integers into array B. Now nd the union (set operation) of array A and B. Sample input 8 7 8 1 5 2 6 4 3 6 7 8 1 5 2 6 4 3 6 1 3 6 0 9 2 3 1 2 3 4 5		6789	
WAP that will take n integers into an array A and m positive integers into array B. Now nd the intersection (set operation) of array A and B. Sample input Sample output 1 2 6 3 Empty set Empty set WAP that will take n integers into an array A and m positive integers into array B. Now nd the union (set operation) of array A and B. Sample input Sample output AP that will take n integers into an array A and m positive integers into array B. Now nd the union (set operation) of array A and B. Sample input Sample output 7 8 1 5 2 6 4 3 0 9 7 8 1 5 2 6 4 3 0 9 1 2 3 4 5		0703	
Sample input Sample output 8 7 8 1 5 2 6 4 3 6 1 3 6 0 9 2 3 1 2 3 2 4 5 VAP that will take n integers into an array A and m positive integers into array B. Now and the union (set operation) of array A and B. Sample input 8 7 8 1 5 2 6 4 3 6 7 8 1 5 2 6 4 3 6 1 3 6 0 9 2 3 1 2 3 4 5			
1 2 6 3 7 8 1 5 2 6 4 3 7 8 1 5 2 6 4 3 8	_		
1 2 6 3 7 8 1 5 2 6 4 3 6 1 3 6 0 9 2 3 Empty set 1 2 3 2 4 5 VAP that will take n integers into an array A and m positive integers into array B. Now nd the union (set operation) of array A and B. Sample input 8 7 8 1 5 2 6 4 3 0 9 7 8 1 5 2 6 4 3 6 1 3 6 0 9 2 3 1 2 3 4 5	Sample input	Sample output	
Empty set Empty set Empty set Empty set April 123 April 245 WAP that will take n integers into an array A and m positive integers into array B. Now and the union (set operation) of array A and B. Sample input Sample output 7 8 1 5 2 6 4 3 0 9 7 8 1 5 2 6 4 3 0 9 1 2 3 4 5			
Empty set Empty set Empty set Empty set A 5 Empty set Factorial set operation Empty set Empty set Factorial set operation Fa	78152643		
Empty set 1 2 3 2 4 5 WAP that will take n integers into an array A and m positive integers into array B. Now nd the union (set operation) of array A and B. Sample input 8 7 8 1 5 2 6 4 3 0 9 7 8 1 5 2 6 4 3 6 1 3 6 0 9 2 3 1 2 3 4 5	ō		
1 2 3 2 4 5 VAP that will take n integers into an array A and m positive integers into array B. Now nd the union (set operation) of array A and B. Sample input 8 7 8 1 5 2 6 4 3 0 9 7 8 1 5 2 6 4 3 6 1 3 6 0 9 2 3 1 2 3 4 5	136092		
2 4 5 VAP that will take n integers into an array A and m positive integers into array B. Now nd the union (set operation) of array A and B. Sample input 8 7815264309 78152643 6 136092 3 12345	3	Empty set	
VAP that will take n integers into an array A and m positive integers into array B. Now nd the union (set operation) of array A and B. Sample input 8 7 8 1 5 2 6 4 3 0 9 7 8 1 5 2 6 4 3 6 1 3 6 0 9 2 3 1 2 3 4 5			
VAP that will take n integers into an array A and m positive integers into array B. Now nd the union (set operation) of array A and B. Sample input 8 7815264309 78152643 6 136092 12345			
Sample input 8	1 5		
7815264309 78152643 6 136092 3 12345			
78152643 6 136092 3 12345	Sample input	Sample output	
6 1 3 6 0 9 2 3 1 2 3 4 5		7815264309	
136092 12345			
3 12345			
1 2 3		12345	
	1 2 3		
2			
4 5	2		

16. WAP that will take n integers into an array A and m positive integers into array B. Now find the difference (set operation) of array A and B or (A-B).

Sample input	Sample output
8	7854
78152643	
6	
136092	
3	123
123	
2	
4 5	

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**

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
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	71
7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	25

18. 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

 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

 7
 33

 1 1 1 1 1 1 1
 1 1 1 1 1 1

 1 1 1 1 1 1 1
 1 1 1 1 1 1

 1 1 1 1 1 1 1
 1 1 1 1 1 1

 1 1 1 1 1 1 1
 1 1 1 1 1 1

19. 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 2nd column with the (n-1)th column and so on... Sample input Sample output 3 3 321 123 654 456 292 292 26 654321 123456 456789 987654 20. WAP that will take (n x n) integer 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 7 4 5 3 5 6 2 No 1 3 4 2 WAP that will take (m x n) positive integer inputs into a matrix of dimension m x n. Now 21. replace all the duplicate integers by -1 in that matrix. Finally display it. Sample input Sample output 3 3 1 7 3 1 7 3 -1 4 5 7 4 5 -1 -1 6 3 5 6 26 2 -1 -1 -1 -1 -1 2 2 2 2 2 2 6 5 4 3 - 1 1 6 5 4 3 2 1

22.	WAP that will take $(m \times n)$ integer inputs into a matrix of dimension $m \times n$. Now just
	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		
2 6	33	
2 2 2 2 2 2		
6 5 4 3 2 1		

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