

MODULE 15.5 PRACTICE DAY

1. WAP that will take n integers into a \sqrt{n} by \sqrt{n} array (2D) and show them as traditional matrix view.

Sample input	Sample output
9 9 8 7 6 5 4 3 2 1	9 8 7 6 5 4 3 2 1
9 1 1 1 2 2 2 3 3 3	1 1 1 2 2 2 3 3 3

2. WAP that will take inputs of two 3×3 sized matrix into two 2D array, suppose A and B. Now do $C = A * B$ (multiplication). Finally display all the elements from matrix / 2D array C.

Sample input	Sample output
1 2 3 4 5 6 7 8 9 2 2 2 2 2 2 1 1 1	9 9 9 24 24 24 39 39 39

3. WAP that will take inputs of $m \times n$ sized matrix into a 2D array and find the maximum element with index location from that matrix.

Sample input	Sample output
3 3 1 2 3 4 5 6 2 9 2	Max: 9 Location: [2][1]

5. 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 the sum of the integers based on the following position pattern (consider only the boxed position during the sum). Please see the input-output.

[illegible]