

C Program to find diagonal sum and secondary diagonal sum

Algorithm:-

- Step 1: Start
- Step 2: Input $m, n, a = 0, \text{sum} = 0$
- Step 3: if $(m = n)$
- 3.1: Print the coefficient of matrix
 - 3.2: for $(i = 0; i < m; i++)$
 - 3.3: for $(j = 0; j < n; j++)$
 - 3.4: Input array $[i][j]$
 - 3.5: repeat 3.2, 3.3, 3.4 until condition becomes false
- Step 4: Print the given matrix is
- 4.1: for $(i = 0; i < m; i++)$
 - 4.2: for $(j = 0; j < n; j++)$
 - 4.3: print array $[i][j]$
 - 4.4: repeat 4.2, 4.3 until condition becomes false
 - 4.5: print $\backslash n$
 - 4.6: repeat 4.1 until condition becomes false
- Step 5: for $(i = 0; i < m; i++)$
- 5.1: $\text{sum} = \text{sum} + \text{array}[i][i]$
 - 5.2: $a = a + \text{array}[i][m-i-1]$
 - 5.3: repeat step 5 until condition becomes false
- Step 6: print the diagonal sum
- Step 7: Print the secondary diagonal sum
- Step 8: else print the given order is not a square matrix
- Step 9: Stop

Flowchart:-



