To find diagonal sum & secondary diagonal sum

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Algorithm

Step 1. Start

Step 2. input m, n, a=0, sum = 0

Step 3. if (m == n)

3.1 print the coefficients 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 ("\n")

Step 5. for (i = 0; i < m; i++)

5.1 sum = sum + array [i] [j]

5.2 a = a + array [i] [m-i-1]

5.2 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 is not a square matrix

Step 9. Stop

Flowchart