C program to find the Sum of principal and Secondary diagonal elements.

Algorithm:

1. Start

2. Input m, n order

3. if (m == n)
   enter coefficients
   for (i=0; i<m; i++)
   for (j=0; j<n; j++)

4. array [i][j]

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

6. for (j=0; j<n; j++)

7. print "\n".

8. for (i=0; i<m; i++)
   sum = sum + array [i][j]
   a = a + array [i][m-i-1]

9. output principal diagonal sum, Secondary diagonal sum.

10. else
    output not a Square matrix

11. Stop.

Flowchart:

Start

Input m, n, Order

if m==n — False

enter coefficients

for (i=0; i<m; i++)

for (j=0; j<n; j++)

array [i][j]

for (i=0; i<m; i++)

for (j=0; j<n; j++)

print "\n"

for (i=0; i<m; i++)

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

output principal and secondary diagonal sum

Output not a Square matrix

Stop