Algorithm

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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++)
9. sum = sum + array[i][j]
   a = a + array[i][m-i-1]
10. output principal diagonal sum, secondary diagonal sum
11. else
    output not a square matrix
12. Stop.

Flowchart