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C program to find 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  $[i][i]$ ;  
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

