Algorithm to find out the summation of boundary elements

1. Input: a two-dimensional array

2. Find each boundary element

$$\begin{split} &\text{for}(i=1;\,i <= m;\,i++) \\ &\text{for}(j=1;\,j <= n;\,j++) \\ &\text{if}(i=1 \parallel j=1 \parallel i=m \parallel j=n),\,\text{sum} = \text{sum} + \text{A[i.j]}, \end{split}$$

3. Output: Print sum as the result of summation of boundary elements

Algorithm to find out the summation of diagonal elements

1. Input: a two-dimensional array

2. Find each diagonal element and add them with sum

3. Output: Print sum as the result of summation of diagonal elements