

\* Matrix Addition and subtraction \*

• Algorithm.

Step 1 : Start.

Step 2 : Read rows and cols.

Step 3 : Repeat for  $i=0$  to  $row-1$  and  
 $j=0$  to  $col-1$   
Read  $a[i][j]$

Step 4 : Repeat for  $i=0$  to  $row-1$  and  
 $j=0$  to  $col-1$   
Read  $b[i][j]$

Step 5 : For  $i=0$  to  $row-1$  and  $j=0$  to  $col-1$   
 $sum[i][j] = a[i][j] + b[i][j]$   
Print  $sum[i][j]$

Step 6 : For  $i=0$  to  $row-1$  and  $j=0$  to  $col-1$   
 $diff[i][j] = a[i][j] - b[i][j]$   
Print  $diff[i][j]$

Step 7 : Stop

• Flowchart.

