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4AL19 ISO53

1. C-program to implement Matrix addition & Subtraction

= Algorithm

Step 1:- Start

Step 2:- Input  $n$  &  $C$

Step 3:- Repeat through step 3

for ( $i=0; i < n; i++$ )

for ( $j=0; j < C; j++$ )

Input  $a[i][j]$

Step 4:- Repeat through step 4

for ( $i=0; i < n; i++$ )

for ( $j=0; j < C; j++$ )

Input  $b[i][j]$

Step 5:- Repeat through step 5

for ( $i=0; i < n; i++$ )

5.1:- for ( $j=0; j < C; j++$ )

5.1 a)  $M[i][j] = a[i][j] + b[i][j]$

5.1 b) Print  $m[i][j]$

5.2:- Print "\n"

Step 6:- Repeat through step 6

for ( $i=0; i < n; i++$ )

6.1:- for ( $j=0; j < C; j++$ )

6.1 a)  $M[i][j] = a[i][j] - b[i][j]$

6.1 b) Print  $m[i][j]$

6.2:- Print "\n"

Step 7:- Stop.



Flowchart

