

C - Program to implement Matrix addition & subtraction

Algorithm

1. Start
2. Input  $r$  &  $c$
3. Repeat through step 3
  - for ( $i=0; i < r; i++$ )
    - for ( $j=0; j < c; j++$ )  
Input  $a[i][j]$
4. Repeat through step 4
  - for ( $i=0; i < r; i++$ )
    - for ( $j=0; j < c; j++$ )  
Input  $b[i][j]$
5. Repeat through step 5
  - for ( $i=0; i < r; i++$ )
    - 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  $\backslash n$
6. Repeat through step 6
  - for ( $i=0; i < r; i++$ )
    - 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  $\backslash n$
7. Stop

# Flowchart

