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A C Program to find addition & subtraction of matrices

Algorithm

step 1: Start

step 2: Input row, col

step 3: Print the elements of matrix A

step 4: for($i=0$; $i < \text{row}$; $i++$)

step 4.1: for($j=0$; $j < \text{col}$; $j++$)

step 4.2: print the element

step 4.3: read $a[i][j]$

step 4.4: Repeat step 4.1, 4.2 until condition becomes false

step 4.5: print("\n")

step 4.6: Repeat step 4 until condition becomes false

step 5: Print the elements of matrix B

step 5.1: for($i=0$; $i < \text{row}$; $i++$)

step 5.2: for($j=0$; $j < \text{col}$; $j++$)

step 5.3: print the element

step 5.4: read $b[i][j]$

step 5.5: Repeat 5.2, 5.3, 5.4 until condition becomes false

step 5.6: print("\n")

step 5.7: Repeat step 5.1 until condition becomes false

step 6: Print the addition of A and B is

step 6.1: for($i=0$; $i < \text{row}$; $i++$)

step 6.2: for($j=0$; $j < \text{col}$; $j++$)

step 6.3: $c[i][j] = a[i][j] + b[i][j]$

step 6.4: Repeat step 6.1, 6.2, 6.3 until test condition becomes false

step 7: for($i=0$; $i < \text{row}$; $i++$)

step 7.1: for($j=0$; $j < \text{col}$; $j++$)

step 7.2: print $c[i][j]$

step 7.3: Repeat step 7.1, 7.2 until condition becomes false

step 7.4: print("\n")

step 7.5: Repeat step 7 until condition becomes false

Step 8: Print the subtraction of A and B

Step 8.1: for ($i=0; i < \text{rows}; i++$)

Step 8.2: for ($j=0; j < \text{col}; j++$)

Step 8.3: $d[i][j] = a[i][j] - b[i][j]$

Step 8.4: Repeat 8.2 and 8.3 until condition becomes false

Step 8.5:

Step 9: for ($i=0; i < \text{rows}; i++$)

Step 9.1: for ($j=0; j < \text{col}; j++$)

Step 9.2: print $d[i][j]$

Step 9.3: Repeat 9.1 and 9.2 until condition becomes false.

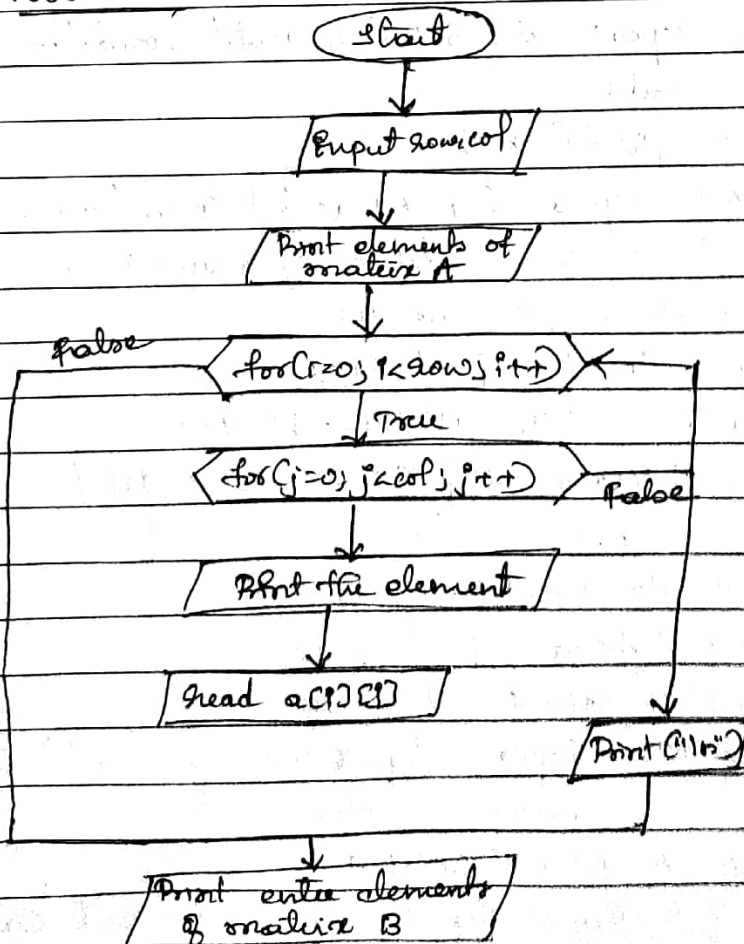
Step 9.4: printf("\n\n")

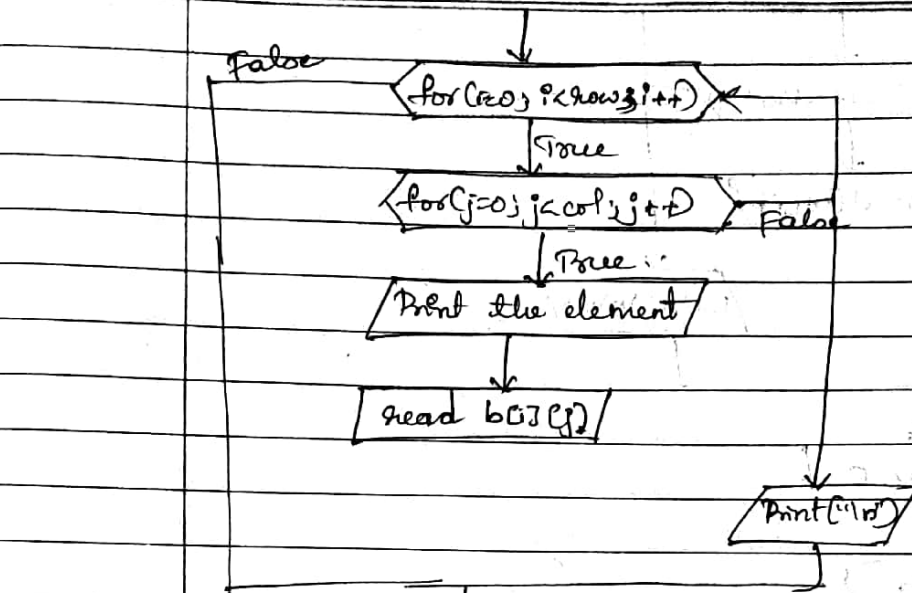
Step 9.5: Repeat Step 9 until test condition becomes false.

Step 10: return 0

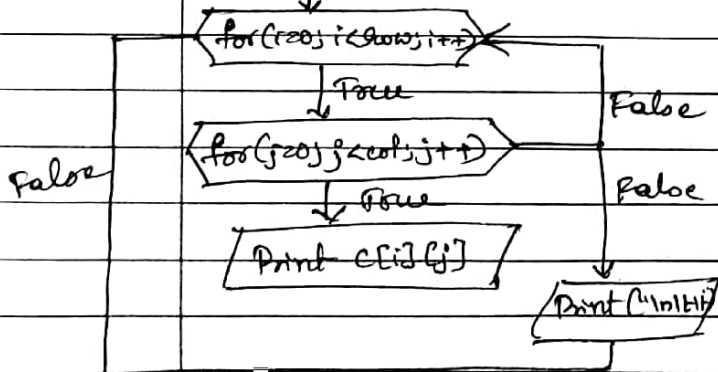
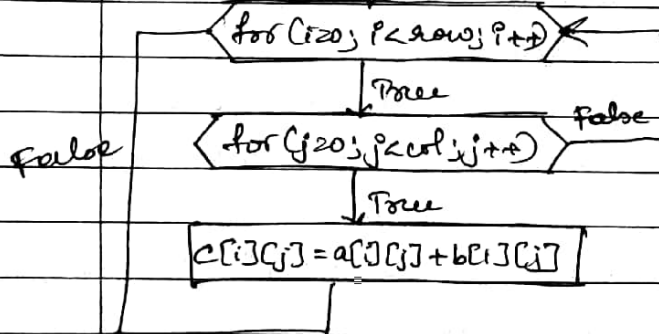
Step 11: Stop

Flowchart





Print addition of A & B



Print the Subtraction of A and B

