

C Program to find transpose of matrix

Algorithm

Step 1: Start

Step 2: Input r, c

Step 3: Enter array elements

3.1: for ($i=0; i < r; i++$)

3.2: for ($j=0; j < c; j++$)

3.3: input $a[i][j]$

3.4: repeat 3.1, 3.2, 3.3 until condition becomes false

Step 4: print elements of the matrix are

4.1: for ($i=0; i < r; i++$)

4.2: for ($j=0; j < c; j++$)

4.3: print $a[i][j]$

4.4: repeat 4.1, 4.2, 4.3 until condition becomes false

Step 5: Transpose of a matrix is

5.1: for ($i=0; i < r; i++$)

5.2: for ($j=0; j < c; j++$)

5.3: $b[j][i] = a[i][j]$

5.4: print $a[j][i]$

5.5: repeat 5.1, 5.2, 5.3 & 5.4 until condition becomes false

5.6: print $\backslash n$

5.7: Repeat 5.1 until condition becomes false

Step 6: Stop

Flowchart :-

