

C program to implement transpose of matrix

Algorithm

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Step 1: Start

Step 2: Input  $r, c$ , elements

Step 3: for ( $i=0; i < r; i++$ )

Step 4: for ( $j=0; j < c; j++$ )

Step 5: Entered matrix  $a[i][j]$

Step 6: for ( $i=0; i < r; i++$ )

Step 7: for ( $j=0; j < c; j++$ )

Step 8: if ( $j == -1$ )

Step 9: for ( $i=0; i < r; i++$ )

Step 10: for ( $j=0; j < c; j++$ )

Step 11:  $transpose[j][i] = a[i][j]$

Step 12: Output transpose of the matrix

Step 13: if ( $j == r-1$ )

Step 14: Output matrix

Step 15: Stop



### Flowchart -

