TRANSPOSE

Transpose ():

Description: Here $A$ is a two-dimensional array with $M$ rows and $N$ columns. This algorithm transposes the array.

1. Repeat For $I = 1$ to $M$
2. Repeat For $J = 1$ to $N$
   [End of Step 2 For Loop]
[End of Step 1 For Loop]
4. Exit

Explanation: The first for loop iterates from 1 to $M$ i.e. total number of rows and second for loop iterates from 1 to $N$ i.e. total number of columns. In step 3, the element at location $A[I][J]$ is assigned to $B[J][I]$ by the statement $B[J][I] = A[I][J]$. 