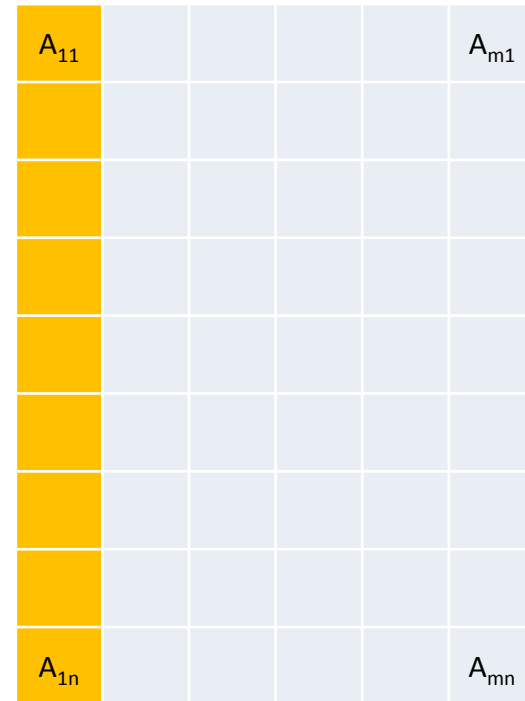
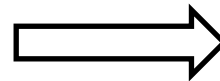
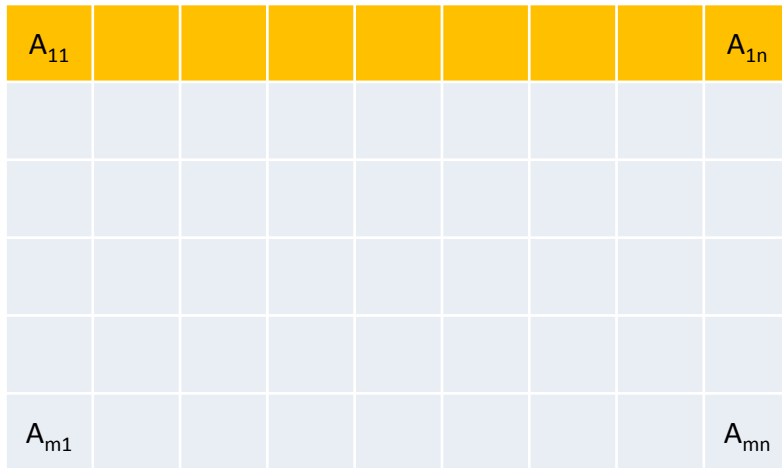


Matrix Transposition

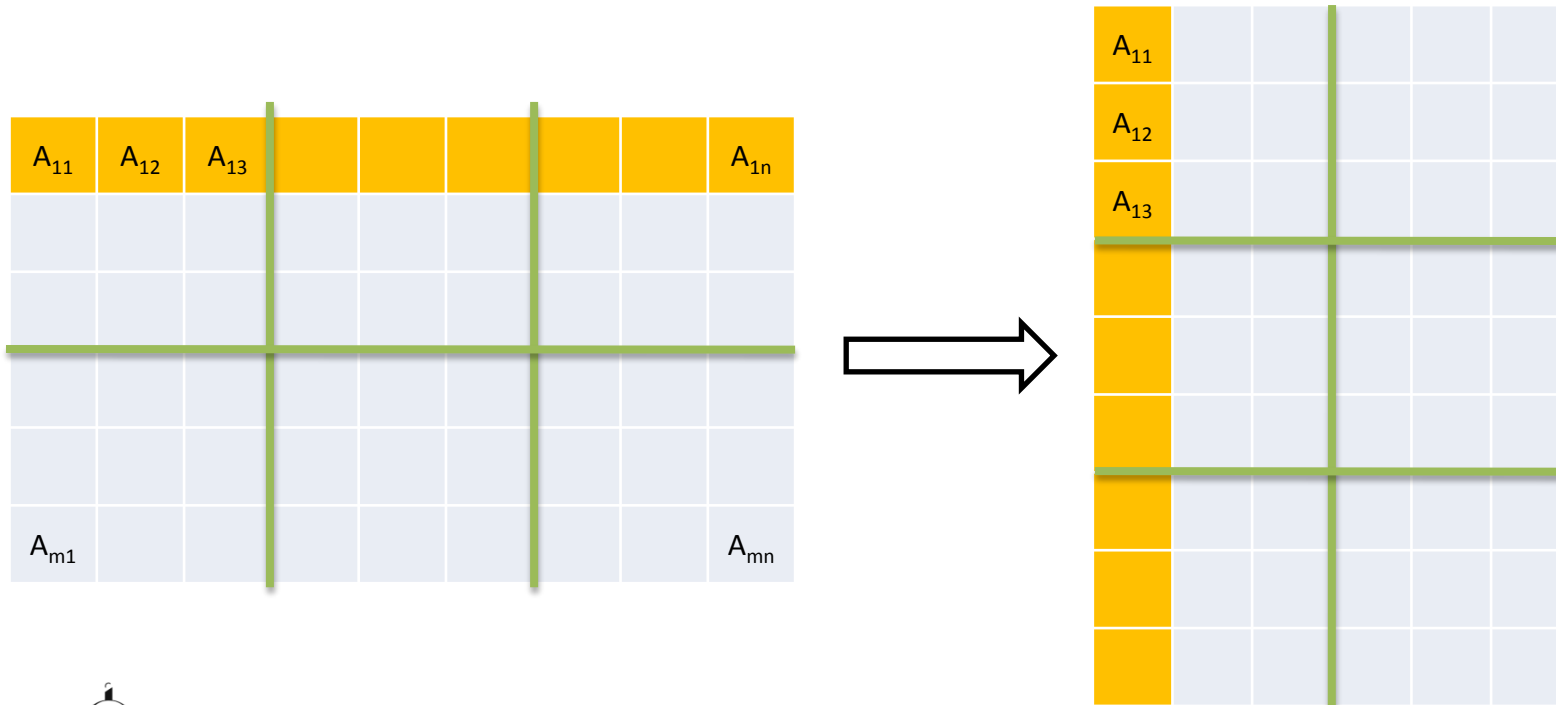


For every element (i, j)
 $A_T(i, j) = A(j, i)$

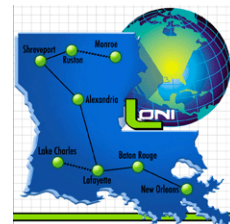
How to do this in parallel?



Matrix Transposition



We can divide it into sub-matrices, assign one to each process, do local transposition, and assemble them.



Parallel Matrix Transposition

1. Create a process grid;
2. Divide the matrix into sub-matrices accordingly and assign one to each process;
3. Let each process perform local transposition;
4. Send the transposed sub-matrix to the root process for assembling

