

Using the **implemented** Sparse Matrix class: Write a method that will calculate the TRANSPOSE of the input SparseMatrix and return it as a new SparseMatrix. (DUE: March 22, Wednesday, 9am)

Step 1: #nonzero in each row of transpose.
= #nonzero in each column of
original matrix
= [0, 1, 3, 1, 1]
Step2: Start of each row of transpose
= sum of size of preceding rows of
transpose
= [0, 0, 1, 4, 5]
Step 3: Move elements, left to right, from
original list to transpose list.

Add a method named **transpose()** to the SparseMatrix class to implement the above described operation.