- One of the primary method performing matrix multiply is by using an array of vectors to represent the sparse matrix to multiply against any matrix which is similar to the "Chain-Vector Matrix Multiply"

- The vector contains the element and the position of itself in the matrix.

- There is a penalty if both matrices are in a Array of Vectors system for seaching. If just one, then the search for the matching element

- The speed up for this method is proportional how sparse the matrix is.