

CS 59000-NMC, 6 September

Please answer the following questions. You may not use any outside references or technology. Justify and explain all answers. This quiz is for my own evaluation, so that I can provide better instruction in the course.

Question

Let \mathbf{A} be a binary matrix. Suppose this matrix is composed of mostly ones and that the zeros are stored with a compressed-sparse row data structure. Write down an algorithm to compute $\mathbf{y} = \mathbf{Ax}$ give the compressed sparse row data structure for \mathbf{A} 's zeros in the arrays `pointer` and `columns`