

$$A = \begin{bmatrix} 3 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 \\ 0 & 2 & 4 & 1 \\ 1 & 0 & 0 & 1 \end{bmatrix}$$

$$\begin{array}{lcl} & \text{Row 0} & \text{Row 2} & \text{Row 3} \\ Av[7] & = & \{ (3 \ 1) \ (2 \ 4 \ 1) \ (1 \ 1) \} \\ Aj[7] & = & \{ (0 \ 2) \ (1 \ 2 \ 3) \ (0 \ 3) \} \\ Ap[5] & = & \{ 0 \ 2 \ 2 \ 5 \ 7 \} \end{array}$$

a. Sample matrix A

b. CSR representation of matrix

FIGURE C.8.1 Compressed sparse row (CSR) matrix.