## BBM 201 Data Structures

QUIZ 3
5.11.2019

Question: Fill in the following array with the contents of the given sparse matrix for an efficient access to the items in the matrix. Use the matrix notation given in the class.

M:
$\begin{array}{lllllll}\mid & 0 & 1 & 0 & 0 & 2 & 1\end{array}$
| $\begin{array}{lllll}0 & 0 & 0 & 4 & 0\end{array}$
| $-1 \begin{array}{lllll}1 & 0 & 0 & 0 & 0\end{array}$
$\begin{array}{lllll}0 & 0 & 3 & 0 & 0\end{array}$
A:

|  | Row | Col | Val |
| :---: | :---: | :---: | :---: |
| $A[0]$ | 4 | 5 | 5 |
| $A[1]$ | 0 | 1 | 1 |
| $A[2]$ | 0 | 4 | 2 |
| $A[3]$ | 1 | 3 | 4 |
| $A[4]$ | 2 | 0 | -1 |
| $A[5]$ | 3 | 2 | 3 |

