Sparse Matrix

A few simple cases

Random cases

A sparse matrix is a large matrix with almost all elements of the same value (typically zero). The normal representation of a sparse matrix takes up lots of memory when the useful information can be captured with much less. A possible way to represent a sparse matrix is with a cell vector whose first element is a 2-element vector representing the size of the sparse matrix. The second element is a scalar specifying the default value of the sparse matrix. Each successive element of the cell vector is a 3-element vector representing one element of the sparse matrix that has a value other than the default. The three elements are the row index, the column index and the actual value. Write a function called **sparse2matrix** that takes a single input of a cell vector as defined above and returns the output argument called **matrix**, the matrix in its traditional form. Consider the following run:

```
cellvec = {[2 3], 0, [1 2 3], [2 2 -3]};
 matrix = sparse2matrix(cellvec)
 matrix =
        -3
Your Function
                                         Code to call your function
                                                                                           C Reset
1 matrix = sparse2matrix({[2 3], 0, [1 2 3], [2 2 -3]})
                                                                                    ► Run Function
Assessment:
                                                                                          Submit
```