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HW02 COP3530 Documentation

Test Case - 1 - Sparse Matrix (User Input is bolded below and output is in red)

```
Reading Matrix A
Enter number of rows, columns
3 4
Enter number of terms in row 1
1
Enter element's column, and value of each term in row 1
1 111
Enter number of terms in row 2
2
Enter element's column, and value of each term in row 2
2 222 3 233
Enter number of terms in row 3
0

Matrix A:
rows = 3 columns = 4
row 1[  col:1 val= 111 ]
row 2[  col:2 val= 222, col:3 val= 233 ]
row 3[ ]

Reading Matrix B
Enter number of rows, columns
3 4
Enter number of terms in row 1
1
Enter element's column, and value of each term in row 1
1 1
Enter number of terms in row 2
1
Enter element's column, and value of each term in row 2
3 1
Enter number of terms in row 3
```

```
0

Matrix B, the boolean mask matrix:
rows = 3 columns = 4
row 1[  col:1 val= 1 ]
row 2[  col:3 val= 1 ]
row 3[ ]
```

Test Case - 2 - Sparse Matrix (User Input is bolded below and output is in red)

```
Reading Matrix A
Enter number of rows, columns
5 3
Enter number of terms in row 1
1
Enter element's column, and value of each term in row 1
1 342
Enter number of terms in row 2
2
Enter element's column, and value of each term in row 2
2 342 3 243
Enter number of terms in row 3
1
Enter element's column, and value of each term in row 3
1 342
Enter number of terms in row 4
0
Enter number of terms in row 5
0

Matrix A:
rows = 5 columns = 3
row 1[  col:1 val= 342 ]
row 2[  col:2 val= 342, col:3 val= 243 ]
row 3[  col:1 val= 342 ]
row 4[ ]
row 5[ ]

Reading Matrix B
Enter number of rows, columns
3 4
Enter number of terms in row 1
1
Enter element's column, and value of each term in row 1
1 34
Enter number of terms in row 2
1
Enter element's column, and value of each term in row 2
2 1
```

```
Enter number of terms in row 3
0

Matrix B, the boolean mask matrix:
rows = 3 columns = 4
row 1[  col:1 val= 1 ]
row 2[  col:2 val= 1 ]
row 3[ ]
```

No Special Diagnostics were utilized — Utilized Xcode for writing my code and terminal for testing my program