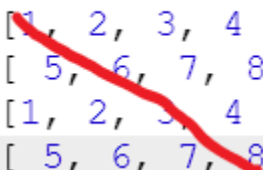# Diagonal

The 'diagonal.js' file contains 2 main functions.

'printDiagonal' is for printing a main Diagonal. Its usage is to print a array diagonally.

```
1▾  var x = [
2       [1, 2, 3, 4 ],
3       [ 5, 6, 7, 8 ],
4       [1, 2, 3, 4 ],
5       [ 5, 6, 7, 8 ] ];
```

If we were to visually see what 'printDiagonal' is doing, it would log the array like this:

```
1▾  var x = [
2       [1, 2, 3, 4 ],
3       [ 5, 6, 7, 8 ],
4       [1, 2, 3, 4 ],
5       [ 5, 6, 7, 8 ] ];
```
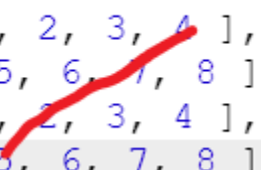
With the expected result, '1, 6, 3, 8'.

'printSecondaryDiagonal' is for printing the other diagonal. Its usage is to print an array diagonally.

```
1▾  var x = [
2       [1, 2, 3, 4 ],
3       [ 5, 6, 7, 8 ],
4       [1, 2, 3, 4 ],
5       [ 5, 6, 7, 8 ] ];
```

If we were to take the same array, and use 'printSecondaryDiagonal', it would print out like this:

```
1▾  var x = [
2       [1, 2, 3, 4 ],
3       [ 5, 6, 7, 8 ],
4       [1, 2, 3, 4 ],
5       [ 5, 6, 7, 8 ] ];
```

With the expected result, '4, 7, 2, 5'.