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Comparison of Two Tables

We have designed a web page which allows a user to set the size of two tables, Table A and Table B, which both hold a random assortment of abbreviations of U.S. state names. The tables must be between 1x1 cell and 15x15 cells in size. If the user enters an invalid size for the tables, or if a user leaves a field empty, an alert window will pop up and inform the user of the valid size requirements for the tables and ask them to try again. Once the user submits valid sizes for the tables, the tables will appear with the desired sizes and a random assortment of U.S. state abbreviations. The tables will generate new data assortments any time the user clicks submit.

The tables are interactive and allow a user to check to see if any cells in either of the tables contain the same state abbreviation. For example, if a user clicks a cell in table B which contains the state abbreviation for Wisconsin (WI), the clicked cell will highlight along with any other cells in table A and table B that contain WI. Each table may contain 0 to many copies of any given state abbreviation. If the user wishes to check for more similarities, all they need to do is click the cell they are interested in. Once a new cell is clicked, the previously highlighted cells will no longer be highlighted. Only the cells that are relevant to the most recent click are highlighted at any given time. To generate a new set of tables, the user just needs to click submit.

We referred several sources of preexisting code. The links for these sources are listed below.

1.) These pages helped us to change the color of our table cells based on value: <http://infoheap.com/jquery-change-table-cells-color-based-on-values/>

<https://stackoverflow.com/questions/7986581/jquery-change-table-cell-text-color-based-on-text>

<https://www.w3schools.com/cssref/pr_class_position.asp>

2.) This page helped us to create our table:

<https://stackoverflow.com/questions/14643617/create-table-using-javascript/14644462>

3.) This page helped us to manipulate the background color of our cells individually:

<https://stackoverflow.com/questions/34242843/change-background-color-of-cells-of-table-using-jquery>

4.) This page helped us to use JavaScript to compare two tables against each other:

<https://stackoverflow.com/questions/35212265/jquery-javascript-compare-two-tables-against-each-other>

5.) This page helped us to style our tables using CSS:

<https://www.w3schools.com/css/css_table.asp>