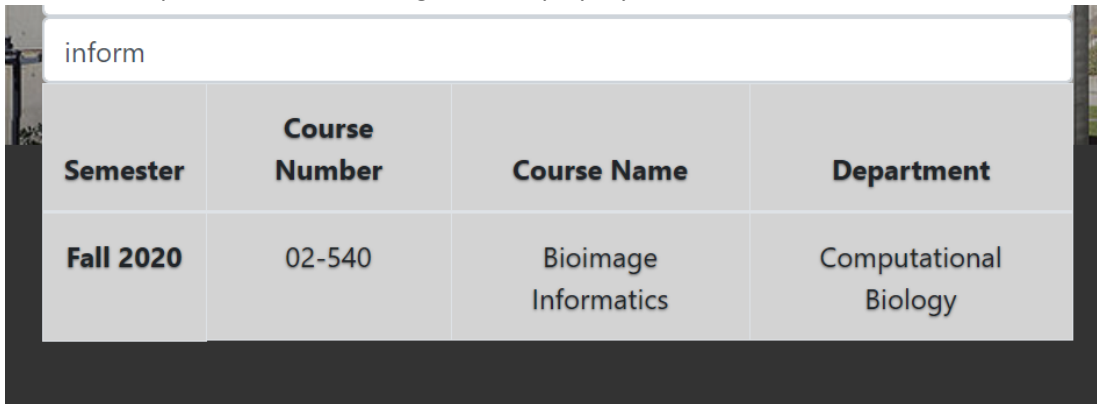


Problem 1: The results are filtered as the user types within the input box. A loop goes through all table rows and hides the rows that don't match the search query, using the `getElementById`, and `getElementsByName` functions to access information as specific indices. It changes the display style to "none" for the ones that don't match.



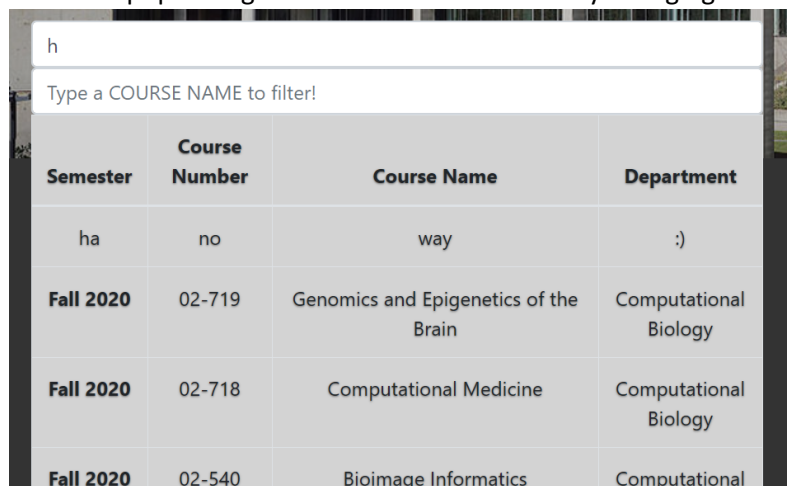
The screenshot shows a search input field containing the text 'inform'. Below it is a table with the following structure:

Semester	Course Number	Course Name	Department
Fall 2020	02-540	Bioimage Informatics	Computational Biology

Problem 2: When the user clicks on course number, the rows become sorted by course number. There is a loop that iterates through the rows and looks to see if the two rows should switch place. It then switches and restarts the loop until switching no longer is necessary between any other rows, using `getElementById`, and `getElementsByTagName` again.

Semester	Course Number	Course Name	Department
Fall 2020	02-540	Bioimage Informatics	Computational Biology
Fall 2020	02-712	Computational Methods for Biological Simulation	Computational Biology
Fall 2020	02-718	Computational Medicine	Computational Biology
Fall 2020	02-719	Genomics and Epigenetics of the Brain	Computational Biology
Fall 2020	15-251	Great Theoretical Ideas in Computer Science	Computer Science

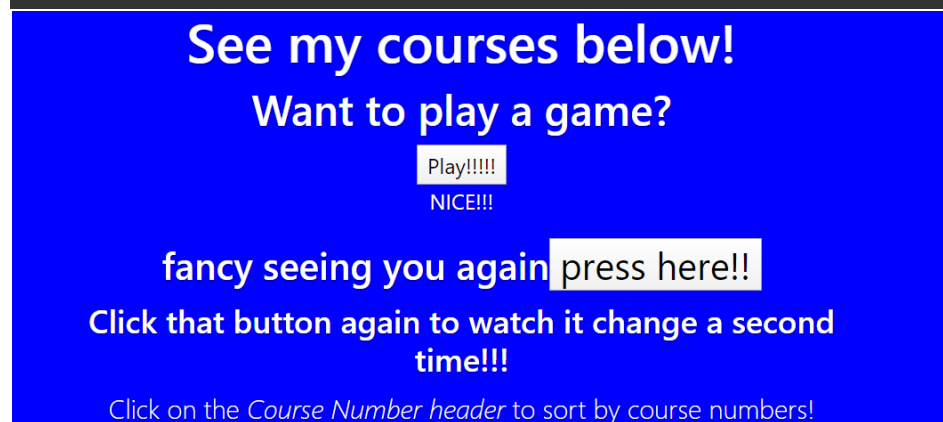
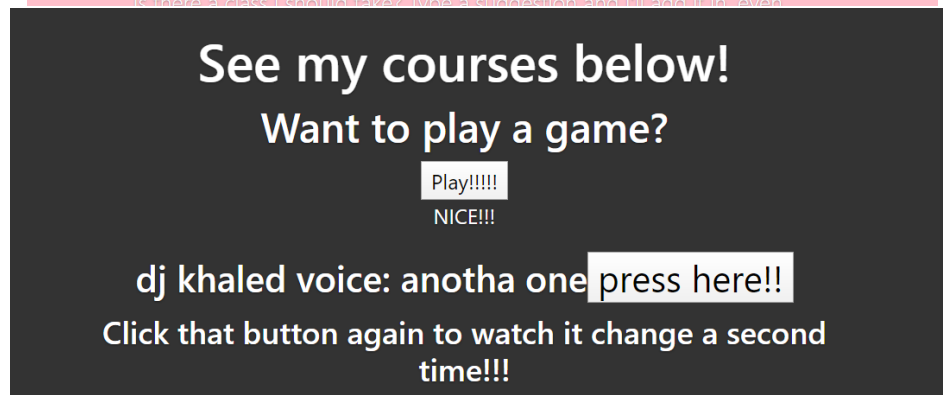
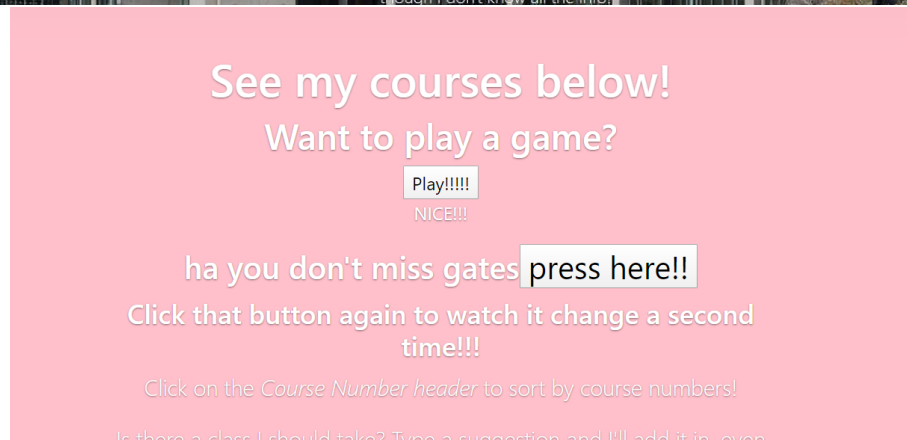
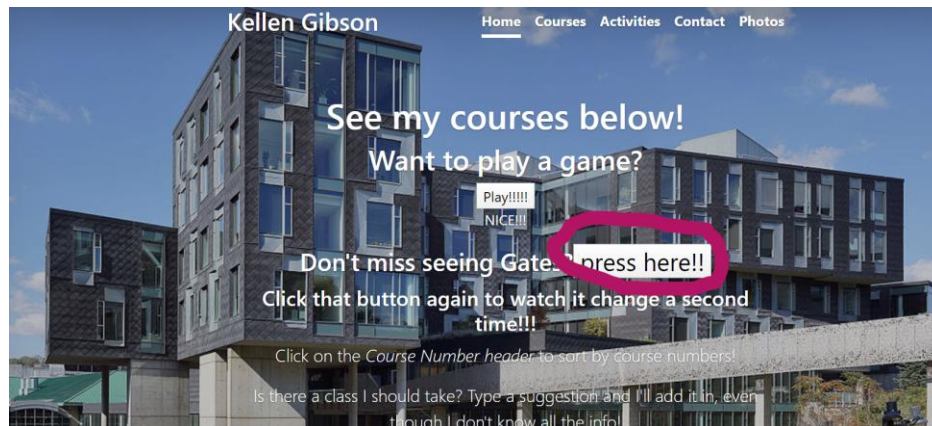
Problem 3: When the user types into the input form, rows are added to the table, using `getElementById`, and inserting the row before populating the cells that are inserted by changing `.innerHTML`.



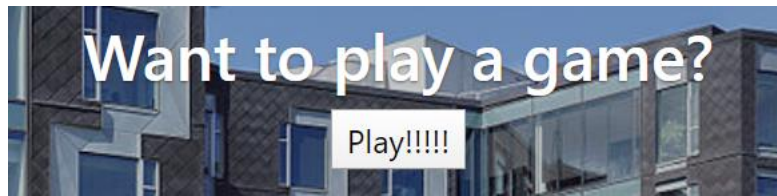
The screenshot shows a search input field containing the text 'h'. Below it is a table with the following structure:

Semester	Course Number	Course Name	Department
ha	no	way	:)
Fall 2020	02-719	Genomics and Epigenetics of the Brain	Computational Biology
Fall 2020	02-718	Computational Medicine	Computational Biology
Fall 2020	02-540	Bioimage Informatics	Computational

Problems 4 and 5: When the user clicks on the “press here!!” button, the page changes colors. In addition, by pressing the button, it alternates through three text choices. There is a variable that keeps track of the number of clicks. First, it removes the original background image. Then, if it's even, it displays the pink background with the “ha you don't miss gates” text before incrementing the click count. If it's a multiple of 3, then it outputs “fancy seeing you again” and changes the background to blue, whereas anything else outputs “dj khaled voice: anotha one” and sets to a dark gray.



Problem 6: Extra Credit Math Game. When the user presses the “Play!!!!”: button, they are asked to enter the square of a randomly generated number. This is an educational game to practice multiplication and gives feedback as soon as they enter by saying “NICE!!!” or giving them the correct answer. The numbers are random so users can continually play.



This page says

What is the square of 35

answer :)

OK

Cancel

