Independent Assignment #4

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Problem 1

I first accessed and stored the search bar input inside a variable, and converted it to all lowercase so that later when i compared values everything would be standardized to all lowercase. Then I accessed and stored the list of buildings inside an array. Then I used a for loop to loop through the list of buildings. Inside the loop I used a conditional to check if the search input matches the building- if not that building's display setting is set to "none."

Problem 2

First I initialized a "sorting" variable as a boolean, setting it as "true" so that we can enter the while loop. The while loop runs while "sorting" is set to "true". Inside the while loop, we access and store all of the shows in an array. We then enter a for loop that iterates through the array of shows. In the for loop, we use a conditional check the show we are currently looping through against the show that succeeds it- if the current show's first character has a higher value (is later in the alphabet), we call a helper function that switches these two shows by using parentNode and the insertBefore() method. Still inside the conditional, we set sorting back to "true" to continue in the while loop.

Problem 3

Initialize a counter variable, as well as all of the colors that we want to use as the background. Create an array with colors. Inside function, add 1 to the counter variable, and find the remainder after dividing by length of color array. Set the remainder as our current Index. Dividing by a remainder let's us continually loop through the array even as the counter increases past the length of the array length. Set the background color of the body as the new background color (use the new index to index into the colors list.

Problem 4

Create an array of all the message strings to cycle through. Initialize a counter variable to 0. In the function, update the counter, and then access the next message we want to show by using the counter as an index to index into the message list. Change the inner HTML of the current message to the new message.