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Assignment 6b

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### **Reflection**

While working on this assignment I encountered quite a few bugs that I had to resolve. One of the first bugs that I encountered was when I was creating my table in JavaScript for my cart items, it would not show up on the actual page. I took me a while to figure it out and with some help from TAs I learned that the location of where you call your script in your html file affects how it works. I resolved the issue by calling script at the end of my html file. Another bug that I encountered was that once the remove button was pressed the array of products would update but the actual table would not update until you manually refreshed the page. After researching it a lot, I learned about reload functions in JavaScript and solve my issue by calling reload after removing the product so that it would draw a new table with the newly shortened array. Learning more about onload and reload functions from this bug will be very helpful in the future in case I encounter a similar dilemma. Another final challenge that I encountered was finally updating the number in the cart on all the pages once a product has been removed from the array. Since I knew the action of clicking the remove button would have to trigger decreasing the cart number by one, I called a new function in the function that removes the product from the array on the click. I then wrote this new function that would access the cart number from the session storage and simply subtract one. This challenge was good practice for me because I learned more about accessing and changing things stored in session storage across different JavaScript files.

### **Programming Concepts**

The first programming concepts I learned was creating new elements with JavaScript, I used this concept in creating the table of products in cart with JavaScript. I also learned how to use JavaScript for loops and used this to loop through each of the products in my array of the items in the cart. A third coding concept I learned was utilizing session storage and was able to use session storage to store both the cart number and items in the cart. I also learned how to add attributes to an element created with JavaScript. This skill was hard for me to understand at first but was able to add attributes like classes, ids, and on click attributes to elements I created with JavaScript and used this when I created the remove buttons in the table. Finally, the fifth concept I learned was load and reload JavaScript functions, and used these to update the cart page when the user removes an item from the cart to display the new cart table.