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Obstacles:

One of the main obstacles I had was figuring out how to use g31 to check my code. The part that was specifically the most challenging was trying to upload my “gymplan.cpp” to the server. After I connected to the vpn, I tried the upload command in the terminal but kept getting an error saying that the gymplan.cpp does not exist. After a while, I decided to try to upload it in a new terminal and it worked! After talking with the TA (Andrew), I learned that trying to upload my file in the original terminal would not work because it is searching within the server for a “gymplan.cpp,” which it does not exist yet (This is because after connecting to the server, the original terminal is now navigating through the server, not my local desktop). However, once I opened a new terminal window, the upload command would now search my local desktop, which made it able to find “gymplan.cpp” and upload it to the server. After this, I was able to use g31 to check my code successfully.

Test Data:

1. Checks to make sure if the program recognizes invalid kind of membership plan  
     
   Bob  
   Adult  
   Odd  
   Just One  
   No  
   No
2. Checks to make sure if the program recognizes invalid type of membership plan  
     
   Basic  
   49ers  
   Odd  
   Just One  
   Yes  
   No
3. Checks to make sure if the program recognizes invalid membership days  
     
   Basic  
   Adult  
   Monday Tuesday Wednesday  
   Just One  
   Yes  
   Yes
4. Checks to make sure if the program recognizes invalid facilities choice  
     
   Basic  
   Adult  
   Odd  
   All  
   Yes  
   No
5. Checks to make sure if the program recognizes invalid autopay  
     
   Basic  
   Adult  
   Odd  
   Regional  
   yup  
   no
6. Checks to make sure if the program recognizes invalid paperless billing  
     
   Basic   
   Adult  
   Even  
   National  
   No  
   nope
7. Writes only the error message for FIRST erroneous input when detecting more than one error #1  
     
   Basic  
   Adult  
   Hello  
   Regional  
   Yep  
   Yep
8. Writes only the error message for FIRST erroneous input when detecting more than one error #2  
     
   Basic  
   Adult  
   Odd  
   Regional  
   Yeppers  
   Nope
9. Writes only the error message for FIRST erroneous input when detecting more than one error #3  
     
   Deluxe  
   Adult  
   Odd  
   Regional  
   Yeppers  
   Yes
10. Writes only the error message for FIRST erroneous input when detecting more than one error #4  
      
    Basic  
    Adult  
    All day everyday  
    Worldwide  
    No  
    No
11. Checks to see if program calculates correct gym plan price #1  
      
    Executive  
    Senior  
    Everyday  
    Just One  
    Yes  
    Yes
12. Checks to see if program calculates correct gym plan price #2  
      
    Basic  
    Child  
    Odd  
    National  
    No  
    No
13. Checks to see if program calculates correct gym plan price #3  
      
    Basic  
    Adult  
    Even  
    Regional  
    No  
    Yes
14. Checks to see if program calculates correct gym plan price #4  
      
    Executive  
    Senior  
    Even  
    National  
    Yes  
    Yes
15. Checks to see if program calculates correct gym plan price #5  
      
    Basic  
    Child  
    Everyday  
    National  
    No  
    No

Test Plans 1-10 checked for all the errors, while Test Plans 11-15 made sure that the program calculated the price correctly by testing each option of kind of plan, type of plan, membership days, facilities, autopay, and paperless billing at least once.