Group B - Kattis Problem Practice Tool - Documentation

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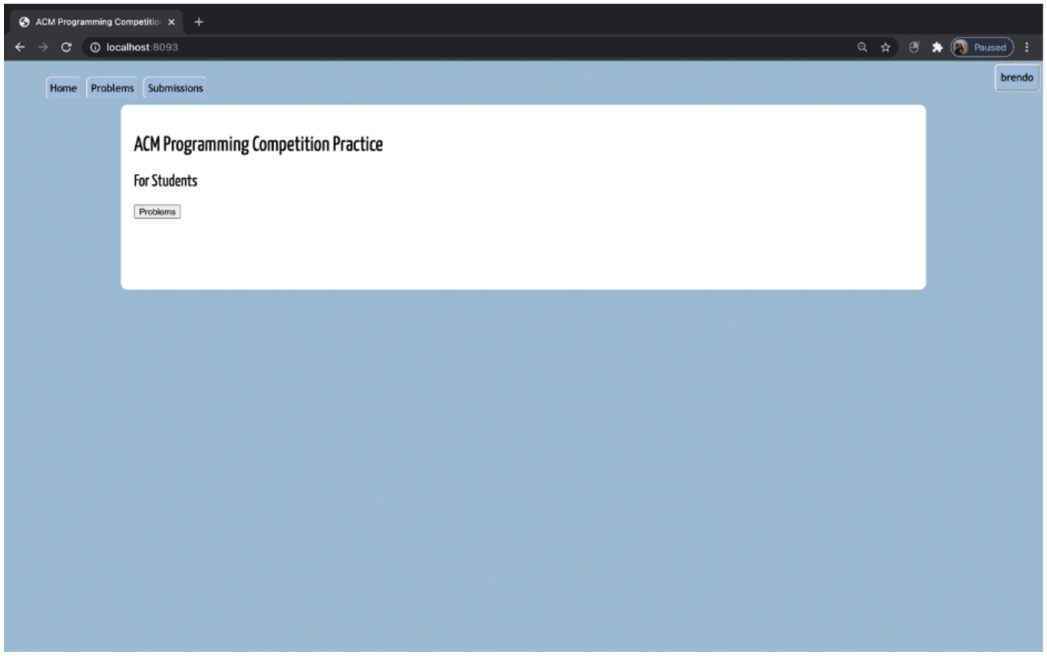
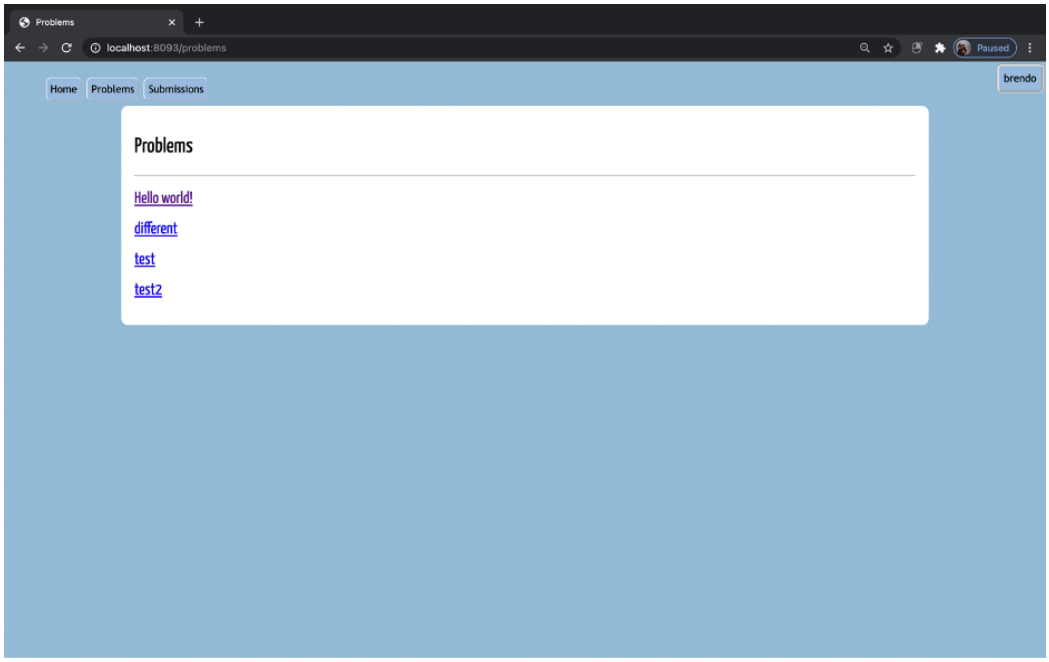
User Documentation:

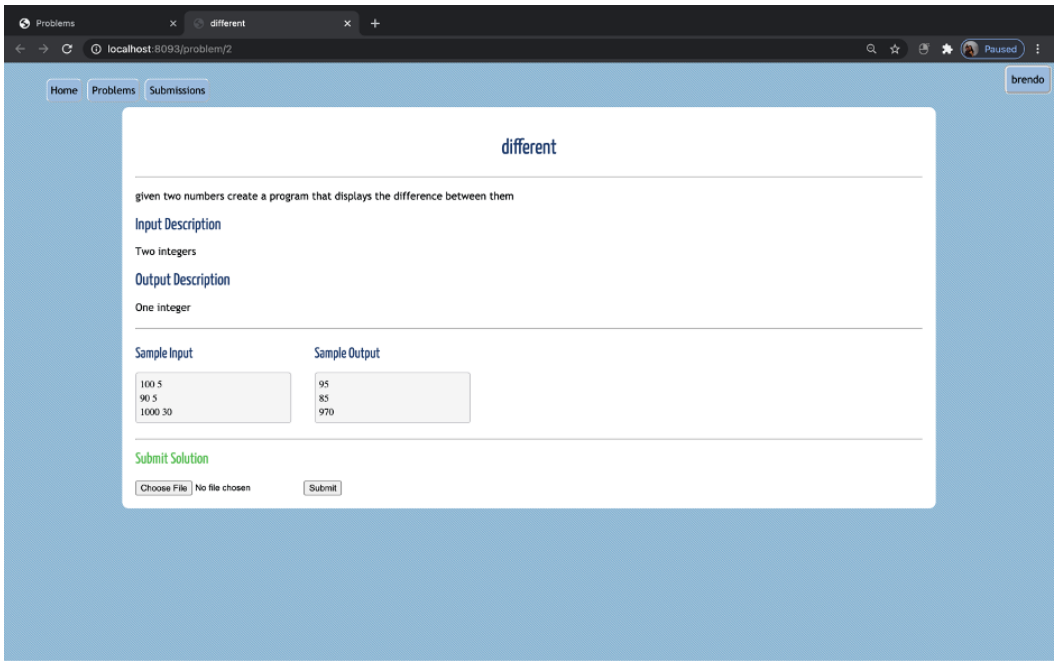
Once logged in with onyen and password, students should navigate to the problems page to browse all available problems.



Clicking the ‘Problems’ link leads to a page with all the listed problems in the database.



Once a student selects a problem they will be navigated to the problem description page in a new tab. The desired input and output for each problem shows students what the functionality of their program should do. Students select a file containing their solution to submit to the auto grader.

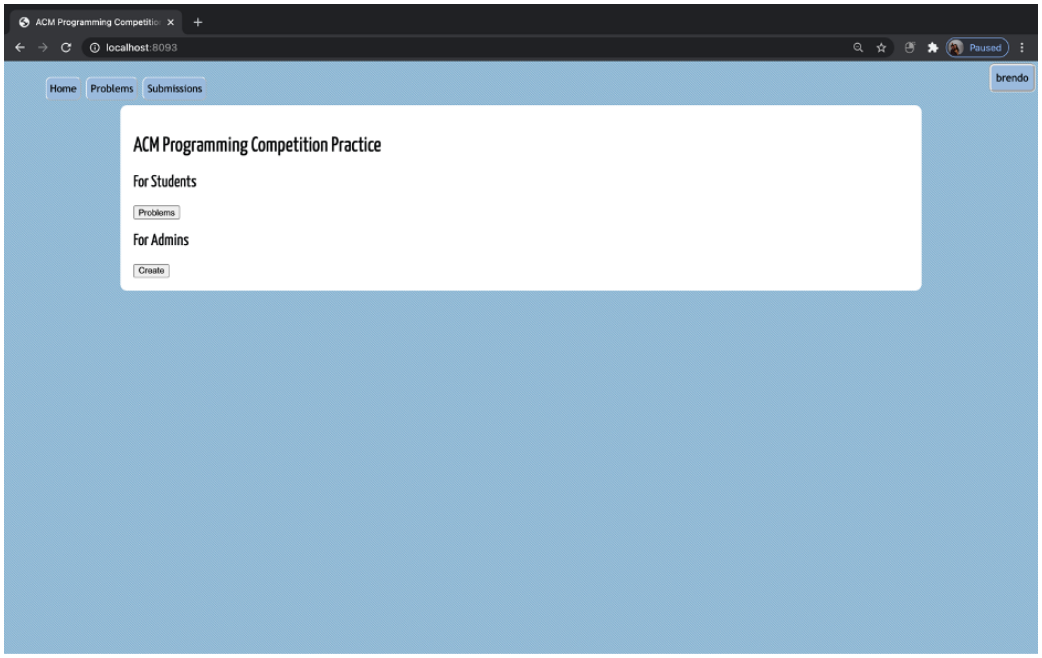


After submitting a solution, the page should say “Successfully submitted <problem_name> for <user_name>! You may close this tab.” The user can just close this tab.

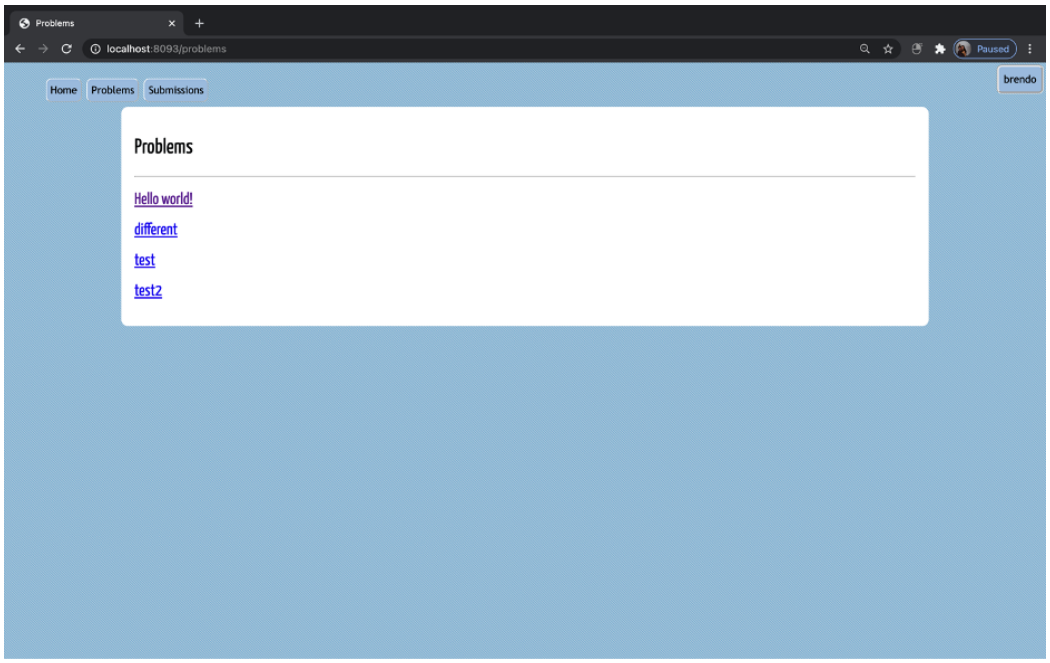
Now the student should go back to the home page, and navigate to the ‘Submissions’ page to see the results of the auto-grader. The list of problems will be there as well, and each problem link will have all the students' submissions for that particular problem. Each submission will show whether the student’s file output was correct or not.

Administrator Documentation:

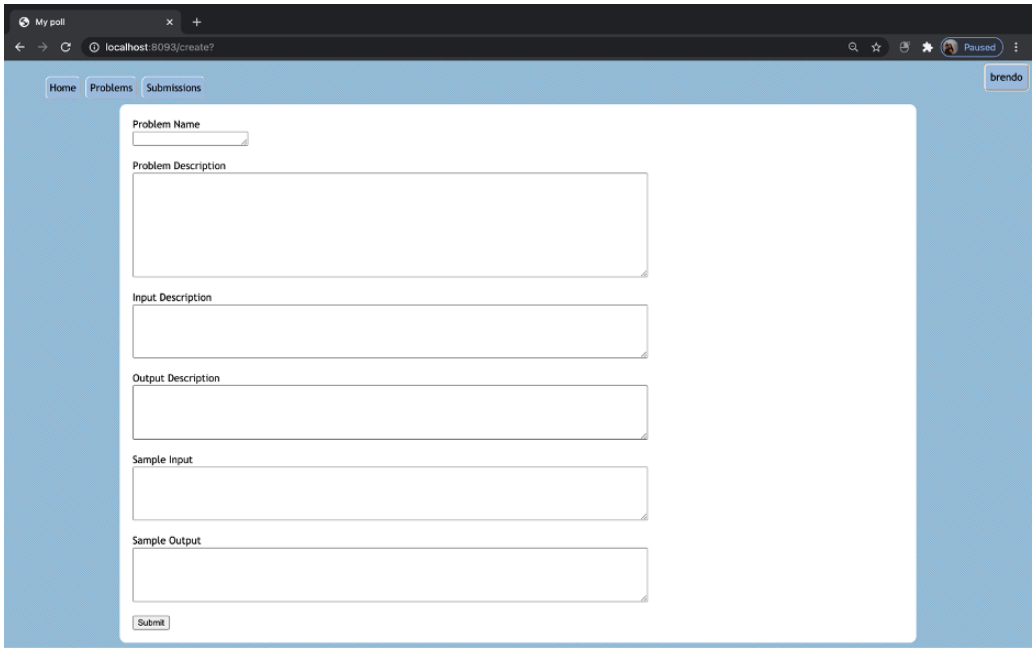
After logging in, this will be the view for administrators:



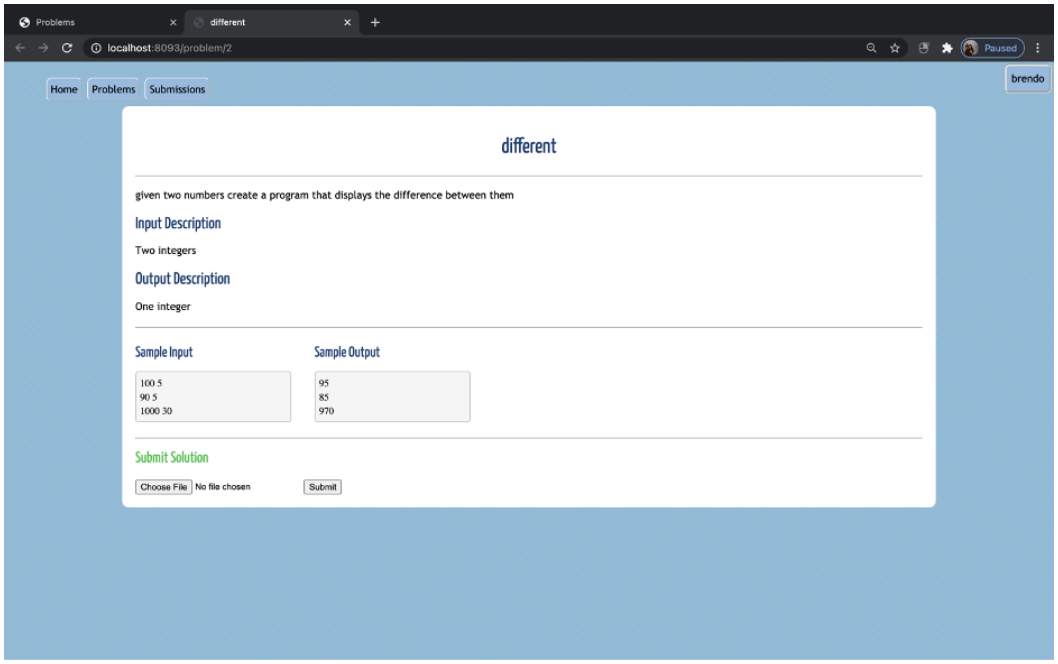
Clicking on the link that says ‘Problems’ will direct the administrator to the list of problems currently in the database.



Clicking ‘Create’ will direct administrators to this page, where they are able to add problems to the database. Clicking ‘Submit’ at the bottom of the page pushes the values in each of the fields to the database as a new record.



From the problems page, clicking on a problem name will open a page with all the parts of a problem. Administrators have the ability to choose a file from their computer using the ‘Choose File’ button, and test it by pressing ‘Submit.’



Finally, to delete a record from the problems database is a little more complicated than the above. The administrator must be connected to the UNC Campus VPN (or on campus), SSH in

to ada@cs.unc.edu, and sign in with their Onyen and password. Then, the administrator should run ‘psql mypoll’. From here, SQL commands allow you to manipulate the database. Running ‘SELECT name FROM problems;’ will display the names of all the problems in the database. To remove a problem, use ‘DELETE FROM problems WHERE name = ‘<problem_name>’;’. After this, the administrator can run ‘SELECT name FROM problems;’ to confirm the problem was deleted.