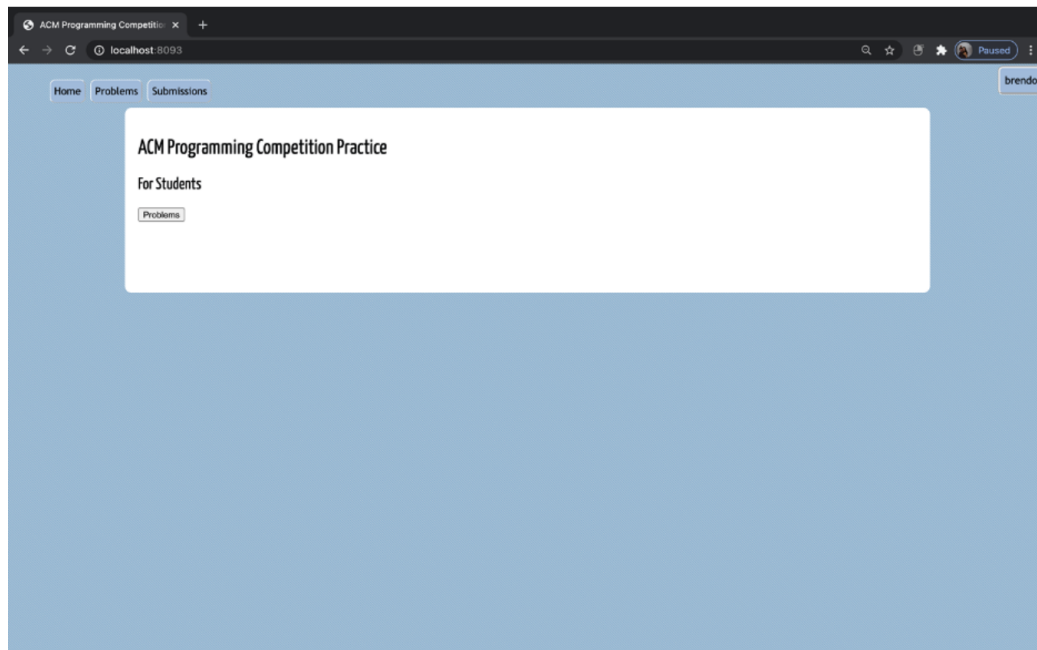


Group B - Kattis Problem Practice Tool - Documentation

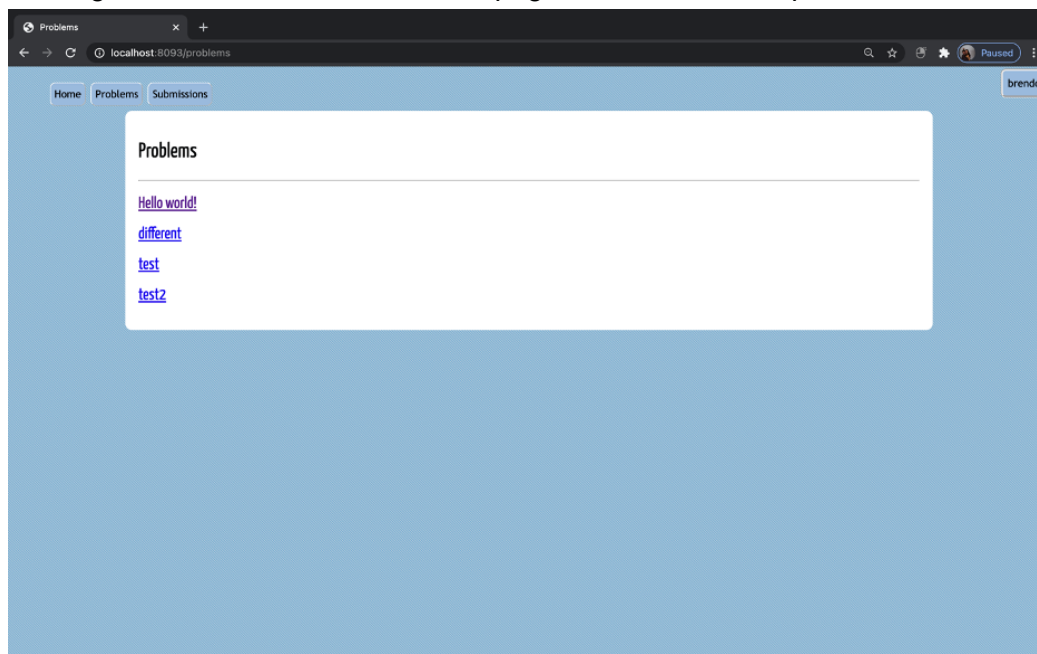
Brendan Carr, Brooks Langley, Will Flanagan, Casey Stamper

User Documentation:

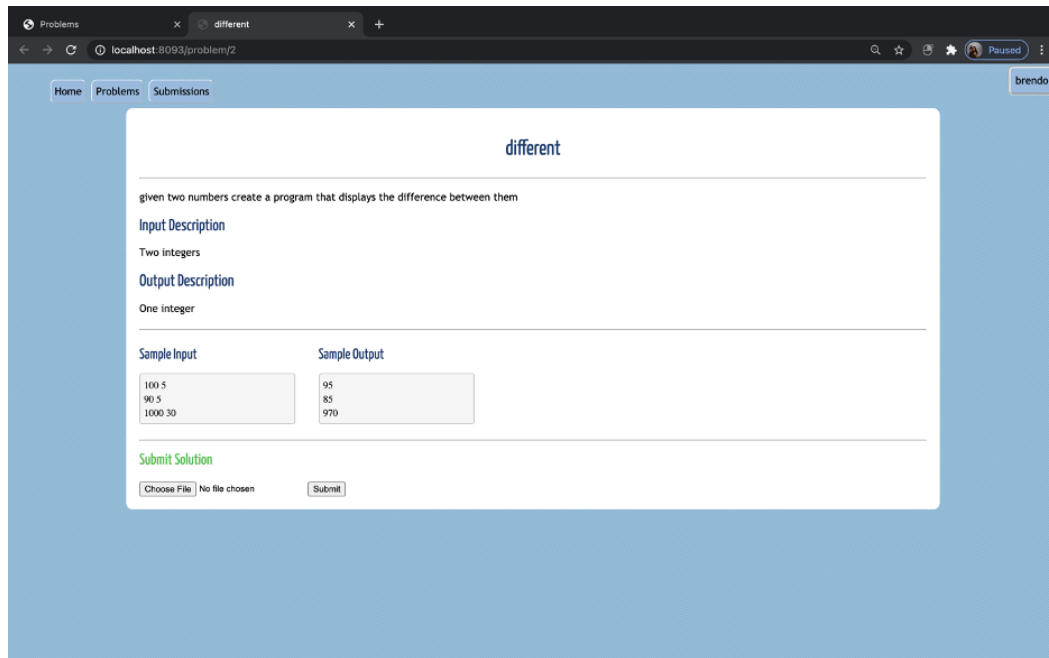
Once logged in with onyen and password, students should navigate to the problems page to browse all available problems.



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.

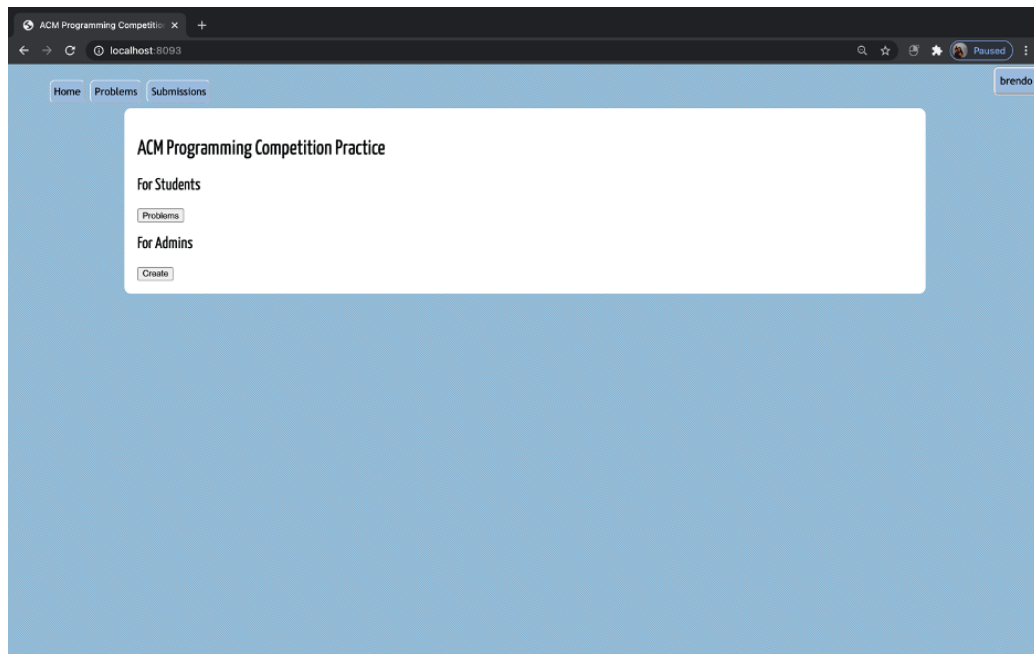


After submitting a solution, the page should say “Successfully submitted <problem_name> for <user_name>! You may close this tab.” The user can just close this tab.

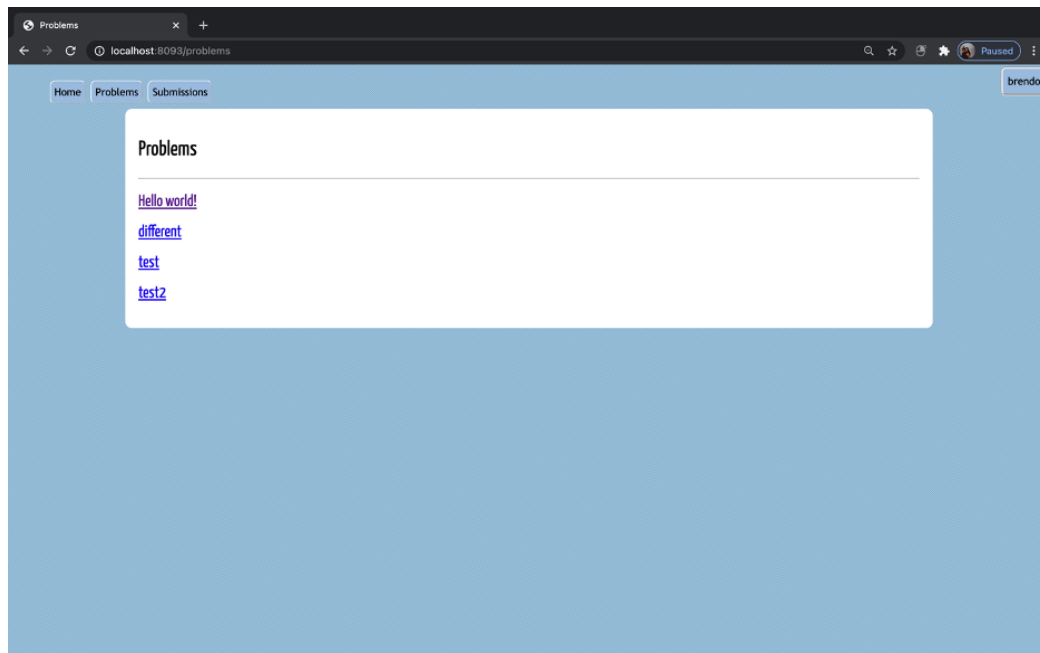
Now the student should go back to the home page, and navigate to the ‘Submissions’ page to see the results of the auto-grader. The list of problems will be there as well, and each problem link will have all the students' submissions for that particular problem. Each submission will show whether the student’s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

Administrator Documentation:

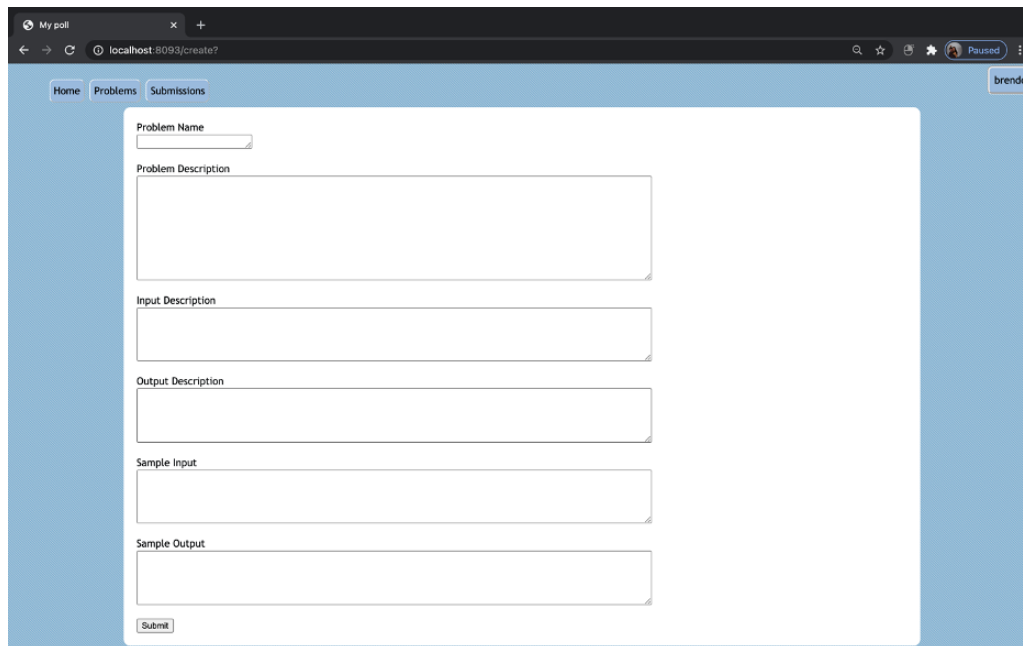
After logging in, this will be the view for administrators:



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

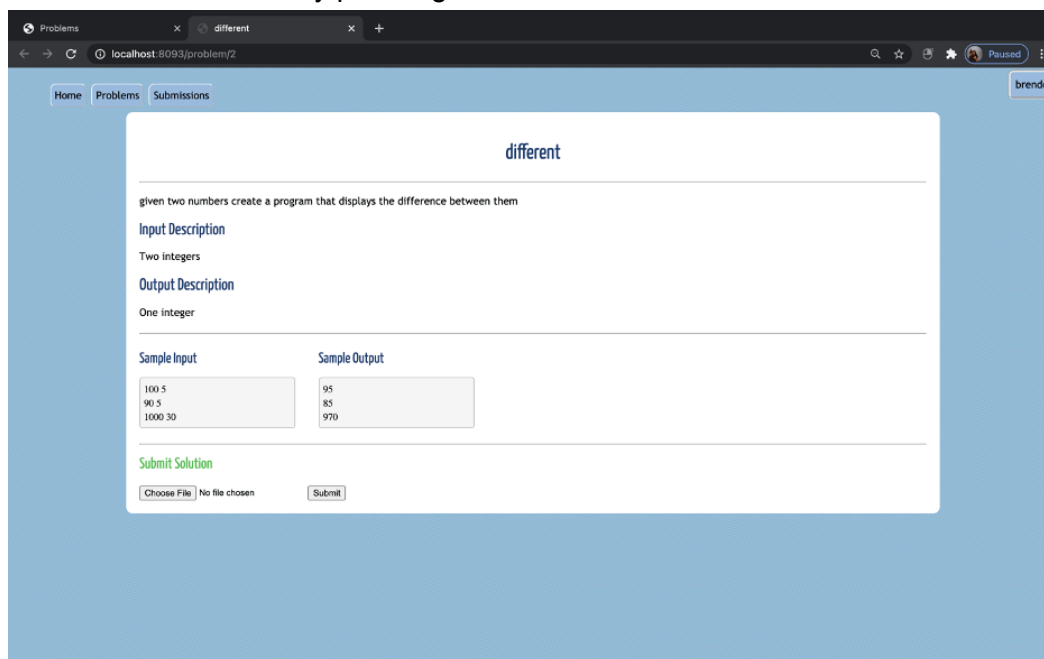


Clicking 'Create' will direct administrators to this page, where they are able to add problems to the database. Clicking 'Submit' at the bottom of the page pushes the values in each of the fields to the database as a new record.



The screenshot shows a web browser window with the address bar displaying 'localhost:8093/create?'. The page has a blue header with navigation links: 'Home', 'Problems', and 'Submissions'. A user profile 'brendo' is visible in the top right. The main content area is a form for creating a new problem. It includes the following fields: 'Problem Name' (a short text input), 'Problem Description' (a large text area), 'Input Description' (a text area), 'Output Description' (a text area), 'Sample Input' (a text area), and 'Sample Output' (a text area). A 'Submit' button is located at the bottom left of the form.

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.'



The screenshot shows a web browser window with the address bar displaying 'localhost:8093/problem/2'. The page has a blue header with navigation links: 'Home', 'Problems', and 'Submissions'. A user profile 'brendo' is visible in the top right. The main content area displays the details for a problem titled 'different'. The problem description is 'given two numbers create a program that displays the difference between them'. Below this, there are sections for 'Input Description' (Two integers), 'Output Description' (One integer), 'Sample Input' (100 5, 90 5, 1000 30), and 'Sample Output' (95, 85, 970). At the bottom, there is a 'Submit Solution' button and a 'Choose File' button with the text 'No file chosen' next to it.

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.