Design Challenge 3

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I. Tasks & Design

1. Tasks

- Show the overall assignment performance of the whole class throughout the semester
- Find students with consistently good/bad performance
- Find possibly bad assignments that everyone performs poorly
- Find students with continuous bad performance in a certain time window
- Compare every student's performances between discussions and seek-and-finds

2. Design

- We use diverging color (red and green) to represent their scores.
- X-axis is the list of assignments and y-axis is the list of students
- We use HeatMap to show the dataset
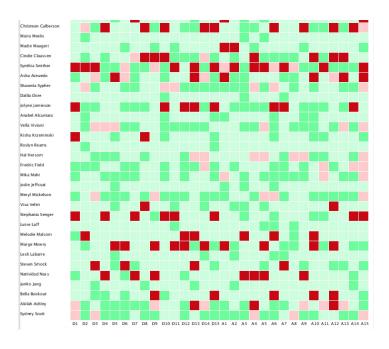
II. Example

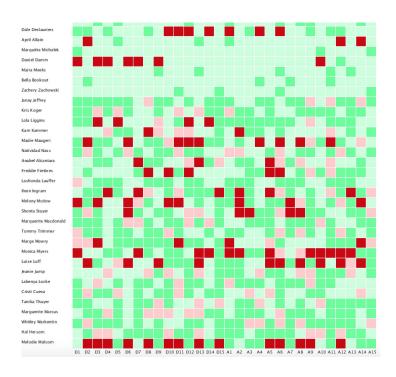Fig 1. Output for sample 100x15.csv

Fig 2.Output for sample 50x15.csv

Fig 1 and Fig 2 are two visualizations based on the provided samples. Please note that these are just the screenshot of partial image of our output, which has a scroll bar.

III. Interesting Facts

There are different types of students which could be found from our visualization. For example, Dalila Dore consistently performed acceptable with a few great assignments. Meryl Mickelson performed greatly in most of his/her assignments but with very few poor assignments. Synthia Smither performed poorly in many of his/her assignments, which the instructor could pay more attention and see what goes wrong with this type of students.

IV. How to Run

Please read our README file for the instruction of running our program (Java).