PACMAN FINAL REPORT

GROUP MEMBERS –

NAME	NET ID	STUDENT ID
KRUTIKA BHALLA	kbhal004	862392481
ARCHANA KALLAKURI	akall011	862393471
MANASVI SHAHARE	mshah107	862385260

Learnings

This project has been a complete roller coaster with too many ups and downs. We are very grateful to each other for constantly sticking in and helping in debugging the code at various stages. The initial week was overwhelming as this was the very first project and we had to figure out and sort each directory to finalize the commit. We looked up certain videos online and chose GitHub as our most preferred platform for harmonizing the code. We also learnt about version control systems like GIT. Since all of us had our own preferred language of coding (most of us being Java developers) we had to sit down and formulate the logic and then code it in python. We also learnt about the basics of python language and by the end of this project, I can vouch that we've become python developers too.

Progress

- The **First Week** was all about the 4 algorithms. We knew the theoretical aspect really well so our only task was to formulate the logic. The huge number of files made it intimidating as we had to analyze each one in order to find the flow and sequence of the code. We had divided the task in such a way that all of us had to figure out a logic on all four algorithms and the most optimal one would be chosen for execution.
- The **Second Week** was not as messed up because we had a predefined workflow to follow and we had also figured out the right directory and made peace with the huge file system and code. So for the second week the division of tasks was the same. Each of us had to find one approach for each question and the best one was executed. The potential challenge was to find a method that was best fit for both tinyCorners and mediumCorners. TinyCorners did not have as many path options as mediumCorners thus we all had to sit together to redefine our approach that was optimal in both cases. This process was time consuming but turned out to be the most efficient one.
- For the **Last Week**, We had to find a consistent heuristic that was a bit challenging. Thus we had to look up for online articles and blogs that helped us

understand the specified term. Once we were familiar with the concept, working on the logic was like a piece of cake.

Accomplishments

We learned about GitHub and became efficient with version control systems. We were able to perform basic commands like git-push, pull, merge and commit. The workflow was smoothened as we went deeper into the project. We could revert back and forth on each mistaken commit. We are also very proud of being able to fix all the bugs on our own and with some help from google and stackoverflow. Each test case that we satisfied made us more confident about our command over the language and our sense of logic.

Team Dynamics

All the team members were very co-operative and reciprocated well with each other. We all were very devoted towards the project and this added to the conjoint effort in bringing out best results. Everyone was able to finish the tasks assigned to them in the given time and thus we had extra time to understand each other's approach towards tackling the algorithms. Since our team size was less, we were able to coordinate with one another.

Team Issues

There were certain issues and merge conflicts that had to be resolved before adding a new commit. Some test cases were really challenging and it became a bit frustrating at times when we had to hold the submission for just one single case. We also got to know our peers and their forte. This helped us divide the tasks equally so that everyone gets a chance to work on their fair share of strengths and weaknesses.