Project coin combination Teamwork gflesher - gflesher

A ***separate copy*** of this template should be filled out and submitted by each student, regardless of the number of students on the team. Also change the title of this template to “Project x Teamwork <team> - <netid>”

<table>
<tr><td>1</td><td>Team Name: gflesher</td></tr>
<tr><td>2</td><td>Individual name: Grant Flesher</td></tr>
<tr><td>3</td><td>Individual netid: 902222559</td></tr>
<tr><td>4</td><td>Other team members names and netids: none</td></tr>
<tr><td>5</td><td>Link to github repository: https://github.com/grantflesher/NTM</td></tr>
<tr><td>6</td><td>Overall project attempted, with sub-projects: I attempted the NTM project, where i coded a NTM that could evaluate if an inputted string would be accepted or rejected</td></tr>
<tr><td>7</td><td>List of included files (if you have many files of a certain type, such as test files of different sizes, list just the folder): (Add more rows as necessary). Add more rows as necessary.
<table>
<tr><td>File/folder Name</td><td>File Contents and Use</td></tr>
<tr><td colspan="2">Code Files</td></tr>
<tr><td>NTM_gflesher.py</td><td>This file is my project code. It takes a csv file as input from one of the test files, and a string from the user. From this it runs a NTM, to see if the string would be accepted or rejected on the NTM inputted.</td></tr>
<tr><td colspan="2">Test Files</td></tr>
<tr><td>test_files (foulder)</td><td>The csv files include inputs that showcase varying NTMs. They show various cases to show how various machines work with the</td></tr>
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<tr><td></td><td>project</td></tr>
<tr><td colspan="2">Output Files</td></tr>
<tr><td>output_files (foulder)</td><td>These are the output files for each of the test files. Each test file was run 5 times, with a different input each time. This would showcase the test files accepting and rejecting varying inputs.</td></tr>
<tr><td colspan="2">Plots (as needed)</td></tr>
<tr><td></td><td></td></tr>
<tr><td colspan="2">Analytics File</td></tr>
<tr><td>NTM Project Analytics_gflesher.pdf</td><td>This file showcases the inputs and outputs of varying machines! Additionally, each machines nondeterminism and depth for each run is provided aswell</td></tr>
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</td></tr>
<tr><td>8</td><td>Individual Student time (in hours) to complete: 7 hours</td></tr>
<tr><td>9</td><td>Your specific activities and responsibilities: all, I completed the project solo</td></tr>
<tr><td>10</td><td>What was personally learned (topic, programming, algorithms): In this project I personally learned a more in depth knowledge about NTMs. After writing code that mimics a NTM, I believe I have a better understanding of how they operate. Additionally, I believe I had good practice with parsing data, utilizing breadth first search, and backtracking throughout this project!</td></tr>
<tr><td>11</td><td>How team was organized, and what might be improved. Staying better organized, and not accidentally deleting important files would be ideal, and a good lesson going forward to NEVER push to main.</td></tr>
<tr><td>12</td><td>Any additional material: This helps to this day: https://www3.nd.edu/~pbui/teaching/cse.20312.fa23/</td></tr>
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