**Instructions for the Installation and Use of this Program**

1. Clone the Github Repository to Create a New Project
   1. Go to <https://github.com/WillardAndrews/SPITE>
   2. Clone the repository
2. Download and Format Data from Nasa Exoplanet Archive
   1. Go to <https://exoplanetarchive.ipac.caltech.edu/cgi-bin/TblView/nph-tblView?app=ExoTbls&config=planets>
   2. Select Download Table with the correct options
      1. CSV Format
      2. Download All Columns
      3. Download All Rows
      4. Values only (no errors, limits, etc.)
   3. Save the file in the cloned repository
   4. Do **NOT** change the name of the file from “planets.csv”
3. Add Rebound to the New Project
   1. Go to <https://github.com/hannorein/rebound>
   2. Add the project to your cloned repository
4. Connect to Remote Server
   1. Download and install PuTTY
   2. Use PuTTY to Connect to the Remote Server
5. Set up and Install on the Server
   1. Use git clone “url of your cloned repository”
   2. Use the command line to navigate to the directory with Rebound
   3. Compile rebound from the command line by typing “make” into the terminal in the directory containing rebound
6. Configure Library
   1. From the terminal, enter the command “export LD\_LIBRARY\_PATH="“Example File Path”/rebound/src"
7. Boot Matlab
   1. Run the command line executable to Boot Matlab
8. Generate Mex Executable
   1. Symbolically link the rebound library “librebound.so” by typing

“ln –s “Example File Path”/rebound/librebound.so “Example File Path”/SPITE/librebound.so

* 1. Configure and run the matlab script GenerateMex as described in the function description

1. Run Simulations
   1. Run the matlab script ExoplanetTableReader
   2. Open the matlab script “RunSims”
   3. Select the number of test cases to evaluate for each system to be ranked
   4. Select the systems to evaluate with by entering their indices as described in the comments
   5. Run the script