- Source Code is included in "chess_move_checker" directory. To build and run the source on linux:
 - Change to the source directory
 - cd /path/to/my/folder/root/chess move checker
 - Create a python 3.6 or greater virtual environment (from tux you can use a python 3.6 build in my home directory)
 - virtualenv -p ~csg58/bin/python3.6 venv
 - Source the virtual environment
 - source ./venv/bin/activate
 - Install the dev requirements
 - pip install -r dev-requirements.txt
 - Install the package
 - pip install -e .
 - Run the program! (validate_move should be in your path now, example input files are in tests/regression_tests/inputs)
 - validate_move OR validate_move -i input_file
 - If validate_move is not in your path, you can also run the program with python chess_move_checker/__main__.py
- For test cases, I had regression and unit tests. I used Unit tests to fill in any areas that my regression tests did not cover.
 - Regression tests are stored in chess_move_checker/tests/regression_tests
 - Unit tests are stored in chess move checker/tests/unit tests
 - Run all tests by running (assuming you are in the directory with setup.py in it):
 - python setup.py test
 - To run tests with code coverage, you must run:
 - nosetests --with-coverage --cover-package=chess move checker
- Here is some output from the static analysis tool pylint that I ran against my code:

- From that output, I went back and updated the code in a few places to remove unnecessary "else" after returns, particularly in types.py. I also used the built-in static analysis tool in my IDE, Pycharm, as I developed. This tool helped me avoid syntax errors and would give type suggestions do some static analysis as I wrote code.
- My final code coverage was about 97%. As I developed, I used the tools "Github", "Travis CI" and "Coveralls" to build my code and run my tests as I developed it. Every time I would push a commit to my Github repository, Travis CI would run all of my tests and upload the results to Coveralls. Here is the history of code coverage as I worked on the project and committed to my repository.

CAMERONGRAYBILL / CHESS_MOVE_CHECKER / 19 BUILDS BRANCH COVERAGE COMMIT COMMITTER TYPE TIME 19 Aug 2018 10:32PM UTC travis-pro master camerongraybill push **1** 96.89 camerongraybill push 19 Aug 2018 10:26PM UTC travis-pro to-turn-in Some pylint changes 96.89 19 Aug 2018 10:14PM UTC travis-pro Fixed names camerongraybill push to-turn-in 96.89 push 19 Aug 2018 09:19PM UTC master Forgot that would break pylint web-flow travis-pro Fixed pawn double moves push 16 Aug 2018 09:35PM UTC travis-pro master ₩ 81.14 🌼 camerongraybill 18 Jul 2018 09:33PM UTC 10 master Added more regression tests 🎒 camerongraybill push travis-pro ₩ 81.48 ₩ 82.55 Updated some code quality stuff camerongraybill push 18 Jul 2018 08:26PM UTC travis-pro master 15 Jul 2018 05:02PM UTC travis-pro master ₩ 85.01 Implemented checking for check camerongraybill push Merge remote-tracking branch 'origin/master' camerongraybill push 12 Jul 2018 11:23PM UTC travis-pro master **\$6.02** Update README.md 12 Jul 2018 09:45PM UTC travis-pro web-flow master - 63.95 push 12 Jul 2018 09:43PM UTC travis-pro master camerongraybill ♠ 63.95 now pass 05 Jul 2018 04:30PM UTC travis-pro master now pass camerongraybill push 1 master **4** 28.57 **Build integration** camerongraybill push 05 Jul 2018 04:15PM UTC travis-pro