

Self Reflection

Jack Forrester

The program reviewed: crimetype.py crimetype_tests.py

Test Results

	Test Result
Unit Tests by crimetype_tests.py	Tests: 1)create_crimes No problems 2)sort_crimes No problems 3)set_crimetime No problems 4)update_crimes No problems 5)find_crime No problems 6)how_many No problems 7)max_rob_by_attr No problems
Test for the crime stats	All crime stats are correct
Test for the robberies.tsv	The output in the robberies.tsv perfectly matches what is in expected-robberies.tsv

Review / Reflection

	How do you think it can be improved?
<code>create_crimes()</code>	Honestly don't think it can be further improved, I would not change anything
<code>update_crimes()</code>	Could potentially use an alternative method to retrieve the date month and time from the time.tsv file, maybe by using the split command lily Nicholas Chan did.
<code>set_crime_time()</code>	I could completely eliminate the use of conditional statements by combining the amh and pmh lists into one single combined list called hours and simply have <code>crime.hour = hours[hour]</code> .
File I/O Exception handling	Any exception which may occur in the execution of <code>main()</code> is handled, include custom error messages if one or both of the files are unable to be opened and if invalid command-line arguments are provided
Extracting command-line arguments	Program uses command line arguments and does so using an index to retrieve elements. It will return an error message if an invalid command-line argument is provided rather than crashing
The overall organization of the program	Overall, the file is very organized and adheres to pep 8 standards throughout. That said the main function is rather large so it would be better for other helper functions to help split up the main function's current workload. Pylint Score: 9.92/10