CS 411 — Term Project — Bonus

Bonus part of the term project is a competition of generating the longest chain.
Our chain has a length of 1600 (6400 lines).

We have generated this chain with doing slight modifications on the Final_Test.py.
We have splitted the generation and the verification steps to 2 seperate programs:

1 — Final_Test_Generate.py:

This program takes 2 arguments from command line: starting block and block count. Then it generates that many blocks starting from the starting block and appends the pow's to the chain.

For example, "python2 Final_Test_Generate.py 300 100" command will generate TransactionBlock300.txt, …, TransactionBlock399.txt and appends the relevant PoW's to an existing LongestChain.txt.

2 — Final_Test_Verify.py:

This program takes 2 arguments from command line: block count and trial count. Then it validates blockchain of that many block, and chooses that many transactions and validates them.

For example, "python2 Final_Test_Verify.py 300 20" command will validate a chain of 300 blocks, and then it will pick 20 random blocks and transactions and verifies them all.

The modified codes, the transaction blocks and the chain generated can be found in the bonus folder of the zip file that can be downloaded from the following link:

https://github.com/berkanteber/cs411-termproject/archive/master.zip

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