Danutella Verification

**The following tests were performed, with the results and correctness shown:**

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| **Test** | **Result** | **Correct?** |
| Get a file when only the origin server has it | Broadcast query message and receive download via Origin Server | **YES** |
| Get a file that has been replicated across multiple servers | Receive the file from the closest server, and ignore hitQueries from other peer. | **YES** |
| Get a file that is expired on certain peers | Peers with expired-TTR files do not send back hitqueries | **YES** |
| Get a file that is invalid | Peers with invalidated files do not send back hitqueries | **YES** |
| Listing files that are invalid | Only files from other peers that are old are shown as invalid | **YES** |
| Listing files to see which are owned by me | Shows +++ to indicate this file is owned by you | **YES** |
| Editing a file in push mode | Sends invalidation message that invalidates the file in other peers | **YES** |
| Editing a file in pull mode | Changes version number only | **YES** |
| Editing a file that isn’t yours | Not allowed (error message shows up) | **YES** |
| Refreshing when you have invalid files | Redownloads them straight from the origin server | **YES** |
| Polling the origin server for a still-valid file | Updates the file’s TTR | **YES** |
| Polling the origin server for an invalid file | Invalidates DanFile | **YES** |
| Sending multiple messages on the network | All messages are kept in order, no dropped or forgotten queries and proper back-channels are established via associative array | **YES** |
| Downloading a file from a peer that is offline | Prints an error message | **YES?** |
| Polling for a file whose origin is offline | Prints an error message | **YES?** |

**Note that the last few tests are not ordinary at all because this is a statically allocated network and all peers are on the same machine, expected to be up.**