Homework 19

Write a 'shame coin' contract

This will be similar to the ERC20 contract you have already written.

- 1. The shame coin needs to have an administrator address that is set in the constructor.
- 2. The decimal places should be set to 0.
- 3. The administrator can send 1 shame coin at a time to other addresses (but keep the transfer function signature the same)
- 4. If non administrators try to transfer their shame coin, the transfer function will instead increase their balance by one.
- 5. Non administrators can approve the administrator (and only the administrator) to spend one token on their behalf
- 6. The transfer from function should just reduce the balance of the holder.
- 7. Write unit tests to show that the functionality is correct.
- 8. Document the contract with Natspec, and produce docs from this