

Homework 3 Answers

Answers

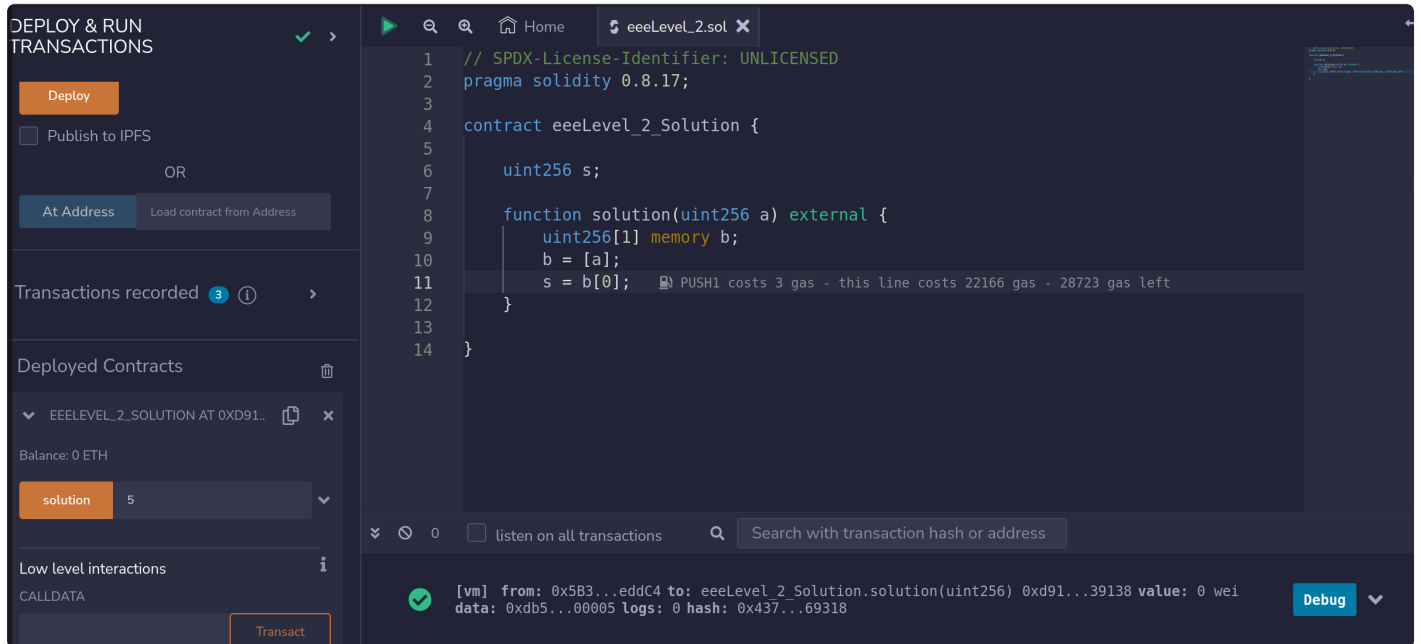
1. What are the advantages and disadvantages of the 256 bit word length in the EVM?

The 256 bit word length allows Keccak-256 hashing algorithm to run efficiently.

2. What would happen if the implementation of a precompiled contract varied between Ethereum clients?

The different clients would not come to consensus and you get end up with forks of the network.

3. Using Remix write a simple contract that uses a memory variable, then using the debugger step through the function and inspect the memory.



The screenshot shows the Remix IDE interface. On the left, the 'Debugger' tab is active, displaying a memory dump with addresses from 0x0 to 0xa0. The main editor shows the Solidity code for 'eeeLevel_2.sol'. The code defines a contract 'eeeLevel_2_Solution' with a 'solution' function that takes a 'uint256 a' and returns 'a'. The function is marked as 'external'. The bottom status bar indicates a transaction is pending to 'eeeLevel_2_Solution.solution'.