

Problem 5: Blockchain

For this problem I decided to implement a linked list because we needed to have a reference to the next block in the chain.

Time and Space Complexity

Space $\rightarrow O(n)$, our space complexity takes a $O(n)$ because each time we add a block to the chain.

Time $\rightarrow O(n)$, because if we want to add a new node we have to go to the end of the chain and if we want to search we need to traverse the entire chain and return the value