Homework 11 Answers

Audit contract

> ## Answer
>
> ### Problems
>
> 1. Floating Pragma : `pragma solidity ^0.8.13;`
> 2. Initialising variables to default values : lines 8,10,24,25,42
> 3. No security for function `addInvestor`
> 4. No security for function `claimTokens`
> 5. Repeat calculation of length property : line 27
> 6. No break in loop : line 29
> 7. Shadowing of `blockReward` variable : line 43
> 8. Block reward calculation is incorrect
> 9. Block reward calculation should have multiplication first
> 10. Public functions could be external
> 11. Investors array could grow too large for loop to complete
> 12. Initial amount could be immutable
> 13. A mapping may be more suitable to store investors (or a merkle tree)

Underhand Solidity Contest

> ## Answer
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> See the description here