# 硅谷live以太坊智能合约 第三课作业

这里是同学提交作业的目录

## 第三课:课后作业

● 第一题:完成今天所开发的合约产品化内容,使用Remix调用每一个函数,提交函数调用截图

#### create payroll



#### addFund



#### addEmployee



getSalary



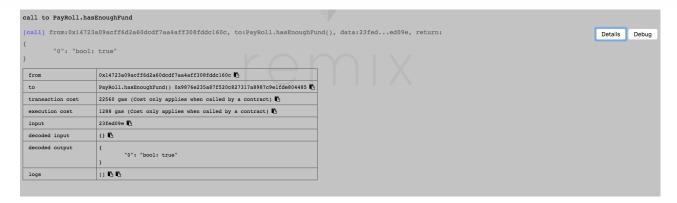
#### updateSalary



#### updatePaymentDuration



hasEnoughFund



#### calculateRunaway



#### updateEmployeeAddress



#### After call updateEmployeeAddress

#### removeEmployee



### After call removeEmployee

#### updateBossAddress



- 第二题:增加 changePaymentAddress 函数,更改员工的薪水支付地址,思考一下能否使用 modifier整合某个功能
- 第三题(加分题): 自学C3 Linearization, 求以下 contract Z 的继承线
- contract O
- contract A is O
- contract B is O
- contract C is O
- contract K1 is A, B
- contract K2 is A, C
- contract Z is K1, K2

最后的继承顺序是  $Z, K_2, K_1, C, B, A, O$ .

$$L(Z) = [Z, MERGE(L(K_2), L(K_1), [K_2, K_1])]$$

$$L(K_1) = [K_1, MERGE(L(B), L(A), [B, A])] = [K_1, MERGE([B, O], [A, O], [B, A])]$$

$$= [K_1, B, MERGE([O], [A, O], [A])] = [K_1, B, A, O]$$

$$L(K_2) = [K_2, MERGE(L(C), L(A), [C, A])] = [K_2, MERGE([C, O], [A, O], [C, A])]$$

$$= [K_2, C, MERGE([O], [A, O], [A])] = [K_2, C, A, O] \\$$

$$L(Z) = [Z, MERGE([K_2, C, A, O], [K_1, B, A, O], [K_2, K_1])]$$

$$= [Z, K_2, MERGE([C, A, O], [K_1, B, A, O], [K_1])] = [Z, K_2, K_1, C, B, A, O]$$