Question-2: function calls screenshots

addEmployee

NotOwner: revert



Owner: successful



OwnerWithDuplicateEmployee: revert



caculateRunway

• FourEmployeesAndNoFund: returns 0

// total emoloyees 4, total salary 4, balance 0



• FourEmployeesAnd20Balance: returns 5

// total employees 4, total salary 4, balance 20



• TotalSalaryMoreThanBalance: returns 0 // total employees 5, total salary 40, balance 20



hasEnoughFund

- FourEmployeesAndBeforeAddFund: returns false // total employees 4, total salary 4, balance 0
 - FourEmployeesAndAfterAddFund: returns true

// total employees 4, total salary 4, balance 20



TotalSalaryMoreThanBalance: returns false

// total employess 5, total salary 40, balance 20



addFund

Positive argument - successfully increases balance

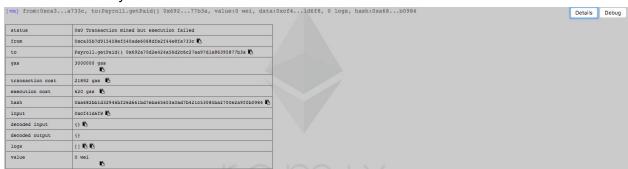


Negative argument - signed integer gets stripped as unsigned integer



getPaid

NonEmoloyee: revert



EmployeeWithOutstandingBalance: get paid for once



EmployeeWithNoOutStandBalance: revert

// i.e. nextPayDate < now



removeEmployee

NotOwner: revert



The constructor should be payable if you send value. Debug the transaction to get more information.

OwnerAndEmployeeExists: successful removal and employee balance increases

// payment 6, balance 10

transact to Payroll.removeEmployee errored: VM error: revert. revert The transaction has been reverted to the initial state. Note: The constructor should be payable if you send value.



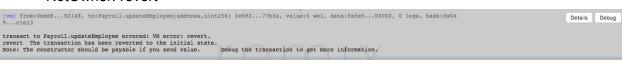
NotEnoughBalanceForPayment: revert

// payment 20, balance 10



updateEmployee

NotOwner: revert



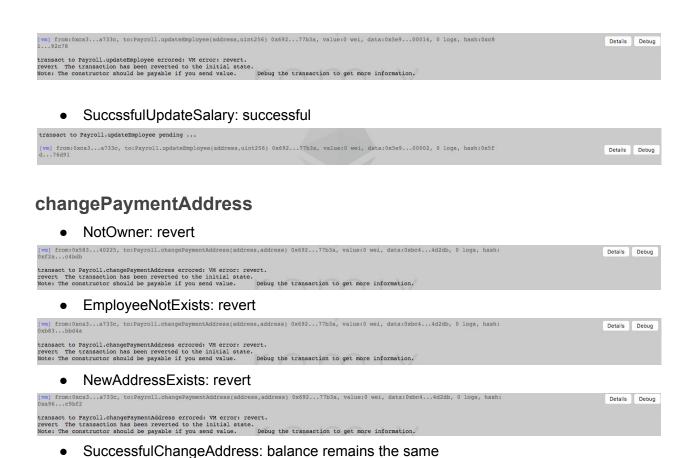
OwnerButEmployeeNotExists: revert

[vm] from:0xdd8...92148, to:Payroll.updateEmployee(address,uint256) 0x692...77b3a, value:0 wei, data:0x5e9...00002, 0 logs, hash:0x99

Leansact to Payroll.updateEmployee errored: VM error: revert.
revert The transaction has been reverted to the initial state.
Note: The constructor should be payable if you send value.

Debug the transaction to get more information.

NotEnoughBalanceForPayment: revert

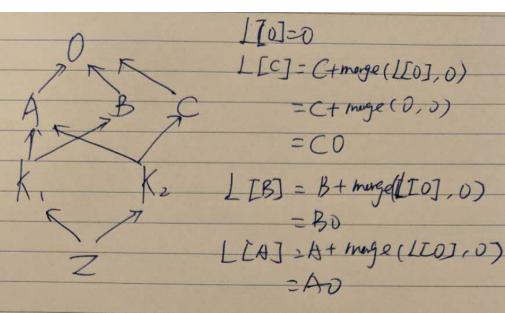


Details Debug

Question-3: inheritance path of Z

[vm] from:0xca3...a733c, to:Payroll.changePaymentAddress(address,address) 0x692...77b3a, value:0 wei, data:0xbc4...4dldb, 0 logs, hash: 0x714...bdd27

L[Z] = Z-K2-C-A-K1-B-O



[[K]= K2+ marge([C], L[A]) = K2+ marge(CO, AD) = K2+ C+A+D = K2 CAO

L[K,] = K, + mage(LIB], L[A])
= K, + mage(Bo, Ao)
= K, + B + A + O
= K, BAO

L[Z] = Z+ mange (L[K2], L[Ki])
= Z+ mange (K2CAO, K, BAO)
= Z+ K2+ mange (CAO, K, BAO)
= Z+ K2+ C+ mange (AO, K, BAO)
= Z+ K2+ C+ A+ thange (O, K, BO)
= Z+ K2+ C+ A+ K1+ B+ mange (O, O)
= Z K2 CAK1BO