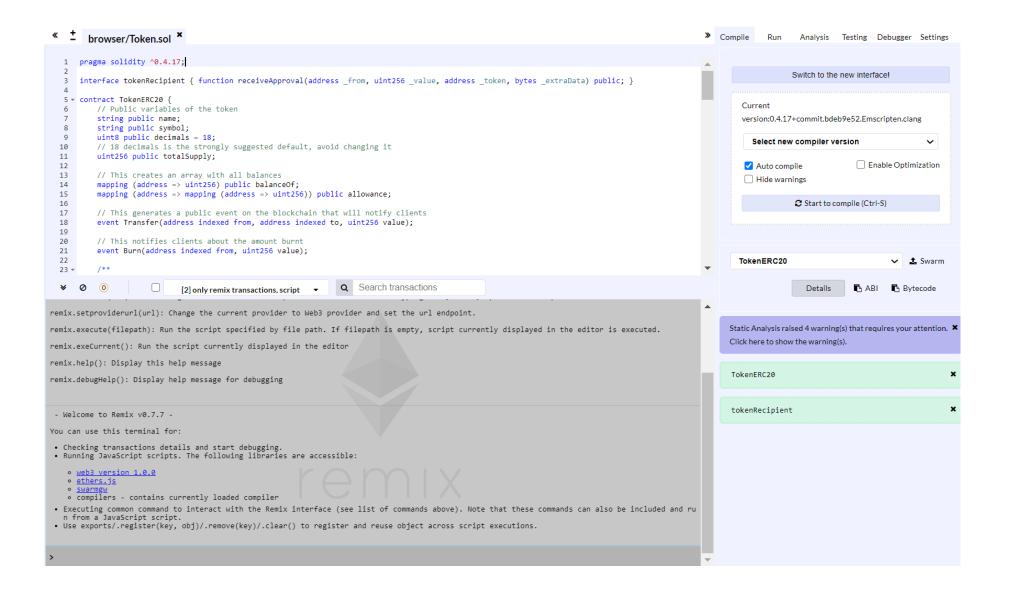
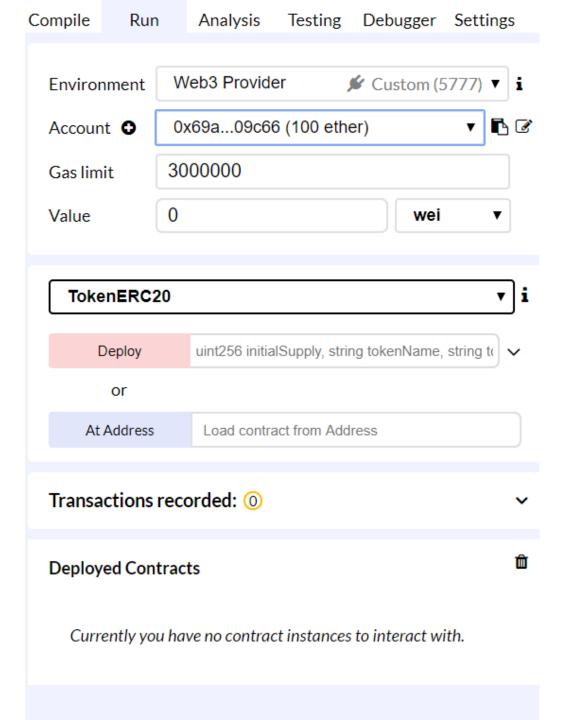
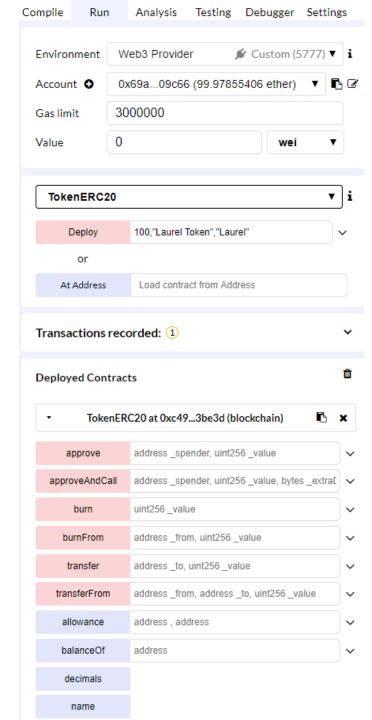
# Lab 1

2020/5/31

薛嘉宜





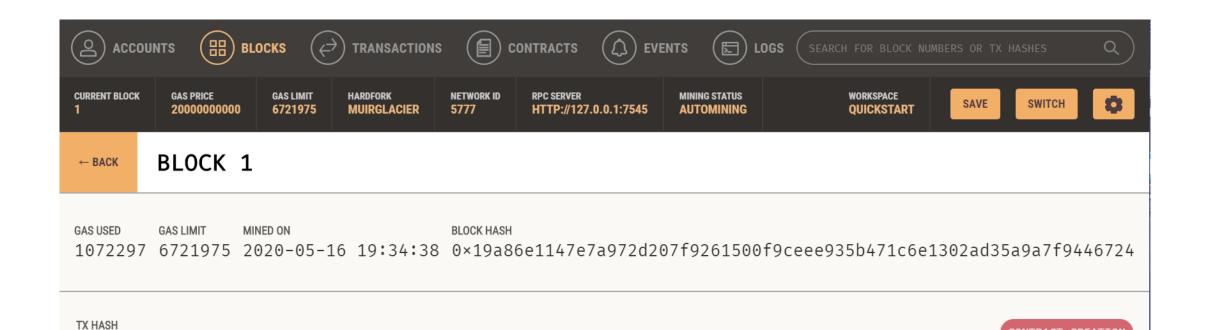


creation of TokenERC20 pending...

[block:1 txIndex:0] from:0x69a...09c66 to:TokenERC20.(constructor) value:0 wei
data:0x606...00000 logs:0 hash:0x802...f913e

Debug

0x1 Transaction mined and execution succeed status 0x8026187b1ec68a7f89a04401362482db58de28d3dd43ffe2a1f9ab1fbdff913e transaction hash 0x69ad057db5c950a16e4d243e97c2894711409c66 from TokenERC20.(constructor) to 1072297 gas gas transaction cost 1072297 gas 🜓 0x8026187b1ec68a7f89a04401362482db58de28d3dd43ffe2a1f9ab1fbdff913e hash input 0x606...000000 🖪 decoded input "uint256 initialSupply": "100", "string tokenName": "Laurel Token", "string tokenSymbol": "Laurel" } 🕒 - 🖪 decoded output [] 🗗 🗗 logs 0 wei value •



0×C49454104e621831CF6dE4869f969ba2E7d3be3D

0×8026187b1ec68a7f89a04401362482db58de28d3dd43ffe2a1f9ab1fbdff913e

CREATED CONTRACT ADDRESS

FROM ADDRESS

0×69aD057Db5C950A16E4d243E97c2894711409c66

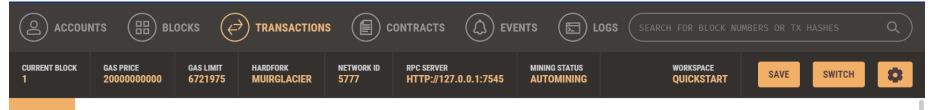
CONTRACT CREATION

GAS USED

1072297

VALUE

0



← BACK

#### TX 0×8026187b1ec68a7f89a04401362482db58de28d3dd43ffe2a1f9ab1fbdff913e

SENDER ADDRESS 0×69aD057Db5C950A16E4d243E97c2894711409c66 CREATED CONTRACT ADDRESS

0×C49454104e621831CF6dE4869f969ba2E7d3be3D

CONTRACT CREATION

VALUE GAS USED

GAS PRICE

GAS LIMIT

MINED IN BLOCK

0.00 ETH

GAS USED 1072297

200000000000

1072297

1

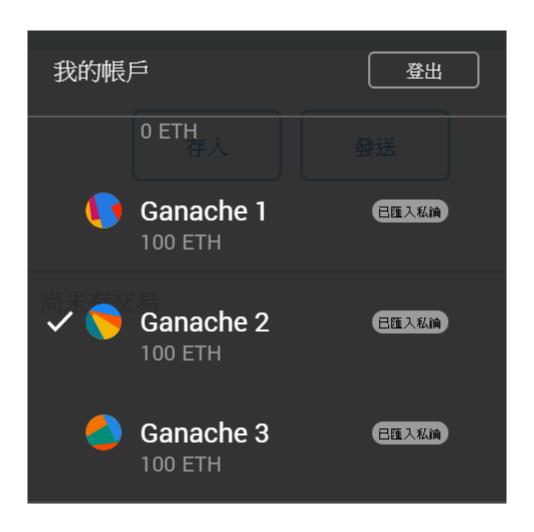
#### TX DATA

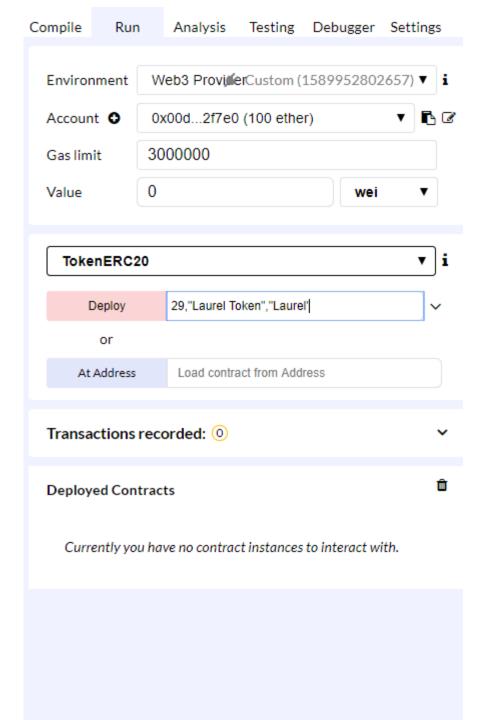
 $0 \times 60606040526012600260006101000a81548160ff021916908360ff16021790555034156200002c57600080fd5b604051620012243803806200122483398101604$ 052808051906020019091908051820191906020018051820191905050600260009054906101000a900460ff16600f16600a0a83026003819055506003546004600009080519060200190620000d8929190620000fb565b508060019080519060200190620000f1929190620000fb565b5050505050620001aa565b828054600181600116905b80821115620001a357600081600090555060010162000189565b5090565b90565b61106a80620001ba6000396000f300606060405236156100b8576000357c06101a557806323b872dd146101ce578063313ce5671461024757806342966c681461027657806370a08231146102b157806379cc6790146102fe57806395d89b411 05090810190601f16801561013d5780820380516001836020036101000a031916815260200191505b509250505060405180910390f35b341561015657600080fd5b00191505060405180910390f35b34156101b057600080fd5b6101b861065c565b6040518082815260200191505060405180910390f35b34156101d957600080fd5b

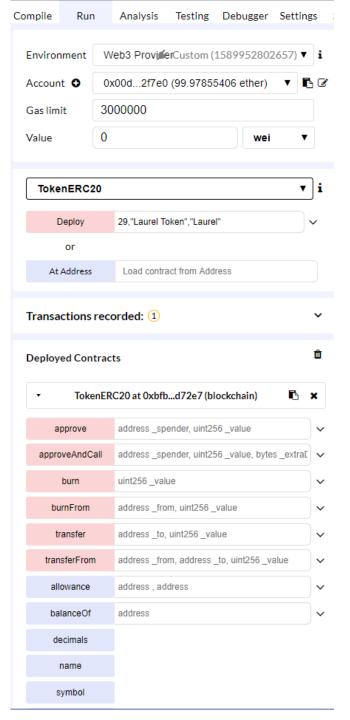
## 觀察和發現

• 在操作ganache的過程中,我發現可以在設定裡的accounts&keys 中更改每個account初始擁有的ether數量,也可以調整要產生多 少個account,在chain選項裡則是可以調整和gas相關的一些設定。 而我在上層顯示欄中看到了一個新名詞:「Hard Fork—Muir Glacier」,去查了之後發現是指今年初以太坊完成的「繆爾冰川」 硬分叉,用以推遲以太坊主網中逐漸顯現的難度炸彈。而難度炸 彈指的是在算法中,使用以太幣在區塊鏈上對礦工進行獎勵的難 度越來越大。以太幣越來越難挖,在區塊鏈上塊的生產之間會有 相當長的時間差。因此以Hard Fork—Muir Glacier來向後推遲難度 炸彈。

# Lab 2







### 連線請求



Remix - Ethereum IDE

Ganache 1

remix.ethereum.org

## Remix - Ethereum IDE 請求訪問帳戶權限

此網站希望能讀取您的帳戶資訊。請務必確認您信任這個網站、並了解後續可能的交易行為。 了解更多.



取消

連線

```
eth blockNumber
net_version
eth accounts
eth_estimateGas
eth blockNumber
net_version
eth_sendTransaction
 Transaction: 0xd25859d0277ee56a5b5c358b8df6f0fb5bf5211a37f2b27202cca9b67a2254cd
 Contract created: 0xbfbe9564b2f034753af712264b894e31d09d72e7
 Gas usage: 1072297
 Block Number: 1
 Block Time: Wed May 20 2020 13:43:43 GMT+0800 (GMT+08:00)
net version
eth_getTransactionReceipt
eth getTransactionByHash
eth_getTransactionByHash
eth_getBalance
eth_getBalance
eth_getBalance
```

