Testing process:

1. Build the program (go build src/main.go)
2. Run the program (go run src/main.go)
3. Enter IP address for first peer
4. Enter port of first peer

```
Please enter IP to connect to:
127.0.0.1
Please enter port to connect to:
7899
Listening on address 127.0.0.1:58444
```

5. If a connection to the desired port is not established, a random port is selected, and the address of the peer is displayed. This address can be used to connect to a peer or make a transaction from/to it.
6. Run the program in a second terminal
7. Use the address from step 4 to connect to first peer.

```
Please enter IP to connect to:
127.0.0.1
Please enter port to connect to:
58444
Listening on address 127.0.0.1:58449
```

8. The public key of each peer is displayed when peer is initialized, and it can be used to test the application manually.


```
[127.0.0.1:58444], publicKey={"N":218677124621896258997284218278756081291430862879347326857127668113567728908102
519933735547827522111967259262882791601328313419405407354181895674089841634032302105116436048193958511730660788 4
920490473551157576107187081338005185489384247191925283244307135729207877187767069457773606466292944989057446349 5
650630599432848848851655641052500402451258150794624679898210902311933783324614735138078506917069885842060032306 0
040158175067705983582671482128836572515900705928308591573872671248224780233227107762612161492077241754978185876 9
712060618698286107131169850372768023181510550910405031935782440641568390579596169909042762 3,"E_or_d":3}
```

```
[127.0.0.1:58449], publicKey={"N":197796504308076854210341016102316900722395871025496343956414356883696215779756
150220595397381649400838663755847183863099398000622116652247422352707550725477032987724370043040100935833752547 1
583421809556046317017894374464687767719633280965325584269949435311829833096673223092779869677604736906609681916 4
157712034811516316829974880491846382641085205334127654077547209937967808188999709890374698017167503622930056596 3
143779122317582400670450968816709348801724432789843348190404817062492262000518347029674877421222210056593132835 4
731942948554278026275835432713077280399122482020316657923847773461956569649675067024754950 9,"E_or_d":3}
```


9. Make a transaction from the first to the second peer by inputting the amount, the address of the sender, and the address of the receiver of the transaction.

```
Amount to send:
200
Sender's address:
127.0.0.1:58449
Receiver's address:
127.0.0.1:58444
```

10. If the signature of the transaction is valid (and the amount is non-negative), the transaction should be executed and the result - printed. Then you should be able to observe that the correct accounts are updated by comparing the peer addresses of sender and receiver with the peer addresses corresponding to the public keys from step 7 in the Account name.

Account name: {"N":19779650430807685421034101610231690072239587102549634395641435688369621577975615022059539738164940083866375584718386309939800062211665224742235270755072547703298772437004304010093583375254715834218095560463170178943744646877677196332809653255842699494353118298330966732230927798696776047369066096819164157712034811516316829974880491846382641085205334127654077547209937967808188999709890374698017167503622930056596314377912231758240067045096881670934880172443278984334819040481706249226200051834702967487742122221005659313283547319429485542780262758354327130772803991224820203166579238477734619565696496750670247549509,"E_or_d":3} amount: -200
Account name: {"N":21867712462189625899728421827875608129143086287934732685712766811356772890810251993373554782752211196725926288279160132831341940540735418189567408984163403230210511643604819395851173066078849204904735511575761071870813380051854893842471919252832443071357292078771877670694577736064662929449890574463495650630599432848848851655641052500402451258150794624679898210902311933783324614735138078506917069885842060032306004015817506770598358267148212883657251590070592830859157387267124822478023322710776261216149207724175497818587697120606186982861071311698503727680231815105509104050319357824406415683905795961699090427623,"E_or_d":3} amount: 200