Suites (6)	Tests (65)
<pre>6 passed 0 failed 0 pending</pre>	<pre>65 passed 0 failed 0 pending</pre>
C:\Users\sarap\Github\Block	<pre><chain\cryptochain\util\crypto-hash.test.js< pre=""></chain\cryptochain\util\crypto-hash.test.js<></pre>
cryptoHash()	generates a SHA-256 hashed output
cryptoHash()	produces the same has with the same input arguments in any order
cryptoHash()	produces a unique hash when the properties have changed on an input
C:\Users\sarap\Github\Block	<pre>chain\cryptochain\blockchain\block.test.js</pre>
Block	has a timestamp, lastHash, hash, nonce, difficulty and data property
Block > genesis()	returns a Block instance
Block > genesis()	returns the genesis data
Block > mineBlock()	returns a Block instance
Block > mineBlock()	sets the `lastHash` to be the hash of the `lastBlock`
Block > mineBlock()	sets the `data`
Block > mineBlock()	sets a `timestamp`
Block > mineBlock()	creates a SHA-256 `hash` based on the proper inputs
Block > mineBlock()	sets a `hash` that matches the difficulty criteria
Block > mineBlock()	adjust the difficulty
Block > adjustDifficulty()	raises the difficulty for a quickly mined block
Block > adjustDifficulty()	lowers the difficulty for a slowly mined block
Block > adjustDifficulty()	has a lower limit of 1
C:\Users\sarap\Github\Block	<pre><chain\cryptochain\blockchain\index.test.js< pre=""></chain\cryptochain\blockchain\index.test.js<></pre>
Blockchain	constains a `chain` Array instance
Blockchain	starts with the genesis block
Blockchain	adds a new block to the chain
Blockchain > isValidChain() > when the chain does not start with the genesis block	returns false
Blockchain > isValidChain() > when the chain starts with the genesis block and has multiple blocks > and a lastHash reference has changed	returns false
Blockchain > isValidChain() > when the chain starts with the genesis block and has multiple blocks > and the chain contains a block with an invalid field	returns false
Blockchain > isValidChain() > when the chain starts with the genesis block and has multiple blocks > and the chain contains a block with a jumped difficulty	returns false
Blockchain > isValidChain() > when the chain starts with the genesis block and has multiple blocks > and the chain does not contain any invalid blocks	returns true
Blockchain > replaceChain() > when the new chain is not longer	does not replace the chain
Blockchain > replaceChain() > when the new chain is not longer	logs an error
Blockchain > replaceChain() > when the new chain is longer > when the new chain is invalid	does not replace the chain
Blockchain > replaceChain() > when the new chain is longer > when the new chain is invalid	logs an error
Blockchain > replaceChain() > when the new chain is longer > when the new chain is valid	replaces the chain
Blockchain > replaceChain() > when the new chain is longer > when the new chain is valid	logs about the new chain replacement
C:\Users\sarap\Github\Block	<pre><chain\cryptochain\wallet\index.test.js< pre=""></chain\cryptochain\wallet\index.test.js<></pre>
Wallet	has a `balance`
Wallet	has a `publicKey`
Wallet > signing data	does not verify an invalid signature
Wallet > signing data	does not verify an invalid signature

2.758s

0.009s

0.001s

3.362s

0.008s

0.001s

0.001s

0.001s

0.002s

0.003s

0.001s

0.001s

0.001s

0.001s

0.001s

0s

0s

3.452s

0.005s

0.003s

0.002s

0.002s

0.002s

0.002s

0.001s

0.002s

0.002s

0.002s

0.003s

0.001s

0.003s

0s

0s

passed

C:\Users\sarap\Github\Blockchain\cryptochain\wallet\index.test.js				
Wallet	has a `balance`		passed	0.177s
Wallet	has a `publicKey`		passed	0.136s
Wallet > signing data	verifies a signature		passed	0.78s
Wallet > signing data	does not verify an invalid signature		passed	1.15s
Wallet > createTransaction() > and the amount exceeds the balance	throws an error		passed	0.162s
Wallet > createTransaction() > and the amount is valid	creates an instance of `Transaction`		passed	0.322s
Wallet > createTransaction() > and the amount is valid	matches the transaction input with the wallet		passed	0.369s
Wallet > createTransaction() > and the amount is valid	outputs the amount the recipient		passed	0.314s

and the amount is valid	outputs the amount the recipient	passed	0.314
<pre>C:\Users\sarap\Github\Bloc</pre>	kchain\cryptochain\wallet\transaction.test.js		11.572s
Transaction	has an `id`	passed	0.362
Transaction > outputMap	has an `outputMap`	passed	0.269
Transaction > outputMap	outputs the amount to the recipient	passed	0.301
Transaction > outputMap	outputs the remaining balance for the `senderWallet`	passed	0.317
Transaction > input	has an `input`	passed	0.406
Transaction > input	has a `timestamp` in the input	passed	0.425
Transaction > input	sets the `amount` to the `senderWallet` balance	passed	0.374
Transaction > input	sets the `address` to the `senderWallet` publicKey	passed	0.33
Transaction > input	signs the input	passed	0.828
Transaction > validTransaction() > when the transaction is valid	returns true	passed	0.621
Transaction > validTransaction() > when the transaction is invalid > and a transaction outputMap value is invalid	returns false and logs an error	passed	0.22
Transaction > validTransaction() > when the transaction is invalid > and the transaction input signature is invalid	returns false and logs an error	passed	0.794
Transaction > update() > and the amount is invalid	throws an error	passed	0.224
Transaction > update() > and the amount is valid	outputs the amount to the next recipient	passed	0.325
Transaction > update() > and the amount is valid	subtracts the amount from the original sender output amount	passed	0.33
Transaction > update() > and the amount is valid	maintains a total output that matches the input amount	passed	0.34
Transaction > update() > and the amount is valid	re-signs the transaction	passed	0.356
Transaction > update() > and the amount is valid > and another update for the same recipient	adds to the recipient amount	passed	0.456
Transaction > update() > and the amount is valid > and another update for the same recipient	subtracts the amount from the original sender output amount	passed	0.418
Transaction > rewardTransaction()	creates a transaction with the reward input	passed	0.254
Transaction > rewardTransaction()	creates one transaction for the miner with the `MINING_REWARD`	passed	0.278
<pre>C:\Users\sarap\Github\Bloc</pre>	kchain\cryptochain\wallet\transaction-pool.test.js		13.647s

<pre>C:\Users\sarap\Github\Blockchain\cryptochain\wallet\transaction-pool.test.js</pre>			
TransactionPool > setTransaction()	adds a transaction	passed	0.319s
TransactionPool > existingTransaction()	returns an existing transaction given an input address	passed	0.262s
TransactionPool > validTransactions()	returns valid transaction	passed	5.041s
TransactionPool > validTransactions()	logs errors for the invalid transactions	passed	3.339s
TransactionPool > clear()	clears the transactions	passed	0.147s
TransactionPool > clearBlockchainTransactions()	clears the pool of any existing blockchain transactions	passed	1.067s