
SecureBankVerificationSimulator
numClients Integer
numVerifications Integer
validPercentage double
outputFile String
clients HashSet<Client>
rnd Random
LOWER_BOUND Integer
CLIENTS_UPPER_BOUND Integer
VERIFICATION_UPPER_BOUND Integer
INVALID_MESSAGES_UPPER_BOUND Integer
ID_UPPER_BOUND Integer
MESSAGE_SIZE_LIMIT Integer
SecureBankVerificationSimulator(Integer, Integer, Double, String)
checkBound(Integer, Integer) Boolean
generateClients() void
generateAndVerifyMessages() void
getNumClients() Integer
getNumVerifications() Integer
getValidPercentage() double
getOutputFile() String
equals(Object) boolean
hashCode() int
Client
publicKey BigInteger[]
privateKey BigInteger[]
idNumber Integer
rnd Random
WITHDRAWAL_LIMIT_MAX Integer
DEPOSIT_LIMIT_MAX Integer
BIT_LENGTH_BIG_INT Integer
BIT_LENGTH_MIN_INT Integer
withdrawalLimit Integer
depositLimit Integer
Client(Integer)
createSignature(Integer, Boolean) BigInteger
generateKeys() void
getPublicKey() BigInteger[]
getWithdrawalLimit() Integer
getDepositLimit() Integer
getIdNumber() Integer
equals(Object) boolean
hashCode() int
MessageTest
signature BigInteger
messageContent Integer
message Message
client Client
message2 Message
message1Content Integer
signatureInvalid BigInteger
setUp() void
validateMessage() void
isDeposit() void
isWithdrawal() void
getMessageContents() void
getSignature() void
SecureBankVerificationSimulatorTest
sim SecureBankVerificationSimulator
setUp() void
validateInput() void
generateAndVerifyMessages() void
getNumClients() void
getNumVerifications() void
getValidPercentage() void
getOutputFile() void
equals1() void
hashCode1() void
ResultsWriterTest
outputFile String
reader BufferedReader
writer ResultsWriter
client Client
signature BigInteger
messageContent Integer
message Message
setUp() void
writeData() void
closeWriter() void
ClientTest
client Client
setUp() void
createSignature() void
getPublicKey() void
getWithdrawalLimit() void
getDepositLimit() void
getIdNumber() void
equals1() void
hashCode1() void
Message
messageContents Integer
signature BigInteger
Message(Integer, BigInteger)
validateMessage(Client) Boolean
isDeposit() Boolean
isWithdrawal() Boolean
getMessageContents() Integer
getSignature() BigInteger
CommandLineProcessorTest
simulator SecureBankVerificationSimulator
args String[]
argsInvalid1 String[]
argsInvalid2 String[]
setUp() void
processArguments() void
processArgumentsInvalid() void
ResultsWriter
writer BufferedWriter
ResultsWriter(String)
writeData(int, Client, Message, Boolean, TransactionStatus) void
closeWriter() Boolean
TransactionStatus
DEPOSIT_ACCEPTED
DEPOSIT_DECLINED
WITHDRAWAL_ACCEPTED
WITHDRAWAL_DECLINED
CommandLineProcessor
REQUIRED_ARGS Integer
processArguments(String[]) SecureBankVerificationSimulator
AppTest
shouldAnswerWithTrue() void
App
main(String[]) void