Traders

ID

Balance (money)

Inventory (quantity of stonks)

Market

Collections of orders

Order

Buy an amount for given price per unit

Sell an amount for MINIMUM price per unit

0000

0001

0002

…

0009

000A

000B

…

000F

0010

PTP Algorithm

New order made 🡪 open to be market

Minimum amount transferred

Orders open after trade or cannot be matched return to market’s order book

Read from standard input and write to standard output

Test Cases

exitImmediately.in

exit

exitImmediately.out

$ Have a nice day.

addTrader.in

add ElonMusk 100

exit

addTrader.out

$ Success.

$ Have a nice day.

addTraderDuplicate.in

add ElonMusk 100

add ElonMusk 50

exit

addTraderDuplicate.out

$ Success.

$ Trader with given ID already exists.

$ Have a nice day.

addTraderNegative.in

add ElonMusk -50

exit

addTraderNegative.out

$ Initial balance cannot be negative.

$ Have a nice day.

addTraderDuplicateNegative.in

add ElonMusk 100

add ElonMusk -50

exit

addTraderDuplicateNegative.out

$ Success.

$ Trader with given ID already exists.

$ Initial balance cannot be negative.

$ Have a nice day.

addTraderMultipleSuccess.in

add ElonMusk 100

add JeffBezos 1000

add SpiderMan 10

add DarthVader 500

add DarthVader 1000

exit

addTraderMultipleSuccess.out

$ Success.

$ Success.

$ Success.

$ Success.

$ Trader with given ID already exists.

$ Have a nice day.

balanceNoTrader.in

BALANCE JeffBezos

exit

balanceNoTrader.out

$ No such trader in the market.

$ Have a nice day.

balanceGetTrader.in

ADD JeffBezos 1000

Balance JeffBezos

Balance ElonMusk

exit

balanceGetTrader.out

$ Success.

$ $1000.00

$ No such trader in the market.

$ Have a nice day.

inventoryNoTrader.in

Inventory JeffBezos

exit

inventoryNoTrader.out

$ No such trader in the market.

$ Have a nice day.

inventoryEmpty.in

ADD ElonMusk 100

INVENTORY ElonMusk

INVENTORY JeffBezos

EXIT

inventoryEmpty.out

$ Success.

$ Trader has an empty inventory.

$ No such trader in the market.

$ Have a nice day.

amountNoTrader.in

amount ElonMusk YeetStock

exit

amountNoTrader.out

$ No such trader in the market.

$ Have a nice day.

amountProductNotInInventory.in

add JeffBezos 1000

Amount JeffBezos YeetStock

AMOUNT ElonMusk YeetStock

exit

amountProductNotInInventory.out

$ Success.

$ Product not in inventory.

$ No such trader in the market.

$ Have a nice day.

importNoTrader.in

IMPORT DarthVader DeathStar 100

EXIT

importNoTrader.out

$ No such trader in the market.

$ Have a nice day.

importAmountNegative.in

add DarthVader 5000

import DarthVader DeathStar -100

import DarthVader DeathStar 0

exit

importAmountNegative.out

$ Success.

$ Could not import product into market.

$ Could not import product into market.

$ Have a nice day.

importAmountSuccessful.in

Add DarthVader 5000

Import DarthVader DeathStar 100

Inventory DarthVader

Amount DarthVader DeathStar

Balance DarthVader

Exit

importAmountSuccessful.out

$ Success.

$ Trader now has 100.00 units of DeathStar.

$ DeathStar

$ 100.00

$ $5000.00

$ Have a nice day.

importAmountMultiple.in

add DarthVader 5000

import DarthVader DeathStar 100

import DarthVader DeathStar 200

import DarthVader DeathStar 0

amount DarthVader DeathStar

import DarthVader DeathStar 50

amount DarthVader DeathStar

amount DarthVader YeetStock

exit

importAmountMultiple.out

$ Success.

$ Trader now has 100.00 units of DeathStar.

$ Trader now has 300.00 units of DeathStar.

$ Could not import product into market.

$ 300.00

$ Trader now has 350.00 units of DeathStar.

$ 350.00

$ Product not in inventory.

$ Have a nice day.

importMultipleStocks.in

add DarthVader 5000

import DarthVader DeathStar 150

import DarthVader YeetStock 50

import DarthVader AWS 75

import DarthVader YeetStock 50

inventory DarthVader

balance DarthVader

amount DarthVader AWS

exit

importMultipleStocks.out

$ Success.

$ Trader now has 150.00 units of DeathStar.

$ Trader now has 50.00 units of YeetStock.

$ Trader now has 75.00 units of AWS.

$ Trader now has 100.00 units of YeetStock.

$ AWS

$ DeathStar

$ YeetStock

$ $5000.00

$ 75.00

$ Have a nice day.

importMultipleTraders.in

ADD JeffBezos 1000

ADD SpiderMan 100

ADD DarthVader 5000

IMPORT DarthVader DeathStar 100

IMPORT SpiderMan Oscorp 20

IMPORT JeffBezos AWS 200

IMPORT ElonMusk YeetStock 50

IMPORT DarthVader AWS 100

INVENTORY DarthVader

INVENTORY SpiderMan

AMOUNT DarthVader DeathStar

AMOUNT JeffBezos Oscorp

BALANCE SpiderMan

EXIT

importMultipleTraders.out

$ Success.

$ Success.

$ Success.

$ Trader now has 100.00 units of DeathStar.

$ Trader now has 20.00 units of Oscorp.

$ Trader now has 200.00 units of AWS.

$ No such trader in the market.

$ Trader now has 100.00 units of AWS.

$ AWS

$ DeathStar

$ Oscorp

$ 100.00

$ Product not in inventory.

$ $100.00

$ Have a nice day.

inventorySuccessful.in

add DarthVader 5000

import DarthVader DeathStar 150

import DarthVader YeetStock 50

inventory DarthVader

import DarthVader AWS 75

inventory DarthVader

exit

inventorySuccessful.out

$ Success.

$ Trader now has 150.00 units of DeathStar.

$ Trader now has 50.00 units of YeetStock.

$ DeathStar

$ YeetStock

$ Trader now has 75.00 units of AWS.

$ AWS

$ DeathStar

$ YeetStock

inventoryMultiple.in

add JeffBezos 1000

add SpiderMan 100

add DarthVader 5000

inventory JeffBezos

import DarthVader DeathStar 150

import SpiderMan Oscorp 20

inventory SpiderMan

import JeffBezos AWS 200

inventory JeffBezos

inventory ElonMusk

exit

inventoryMultiple.out

$ Success.

$ Success.

$ Success.

$ Trader has an empty inventory.

$ Trader now has 150.00 units of DeathStar.

$ Trader now has 20.00 units of Oscorp.

$ Oscorp

$ Trader now has 200.00 units of AWS.

$ AWS

$ No such trader in the market.

$ Have a nice day.

amountSuccessful.in

add DarthVader 5000

import DarthVader DeathStar 150

amount DarthVader DeathStar

import DarthVader DeathStar 50

amount DarthVader DeathStar

exit

amountSuccessful.out

$ Success.

$ Trader now has 150.00 units of DeathStar.

$ 150.00

$ Trader now has 200.00 units of DeathStar.

$ 200.00

$ Have a nice day.

amountMultiple.in

add JeffBezos 1000

add SpiderMan 100

add DarthVader 5000

amount JeffBezos AWS

import DarthVader DeathStar 150

import SpiderMan Oscorp 20

amount SpiderMan Oscorp

import JeffBezos AWS 200

amount JeffBezos AWS

amount ElonMusk YeetStock

exit

amountMultiple.out

$ Success.

$ Success.

$ Success.

$ Product not in inventory.

$ Trader now has 150.00 units of DeathStar.

$ Trader now has 20.00 units of Oscorp.

$ 20.00

$ Trader now has 200.00 units of AWS.

$ 200.00

$ No such trader in the market.

$ Have a nice day.

exportNoTrader.in

EXPORT SpiderMan Oscorp 50

EXIT

exportNoTrader.out

$ No such trader in the market.

$ Have a nice day.

exportAmountNegative.in

add SpiderMan 100

export SpiderMan Oscorp -25

exit

exportAmountNegative.out

$ Success.

$ Could not export product out of market.

$ Have a nice day.

importAmountZero.in

add DarthVader 5000

import DarthVader DeathStar 0

exit

importAmountZero.out

$ Success.

$ Could not import product into market.

$ Have a nice day.

exportAmountZero.in

add SpiderMan 100

export SpiderMan Oscorp 0

exit

exportAmountZero.out

$ Success.

$ Could not export product out of market.

$ Have a nice day.

exportAmountExceeded.in

add SpiderMan 100

import SpiderMan Oscorp 20

export SpiderMan Oscorp 50

exit

exportAmountExceeded.out

$ Success.

$ Trader now has 20.00 units of Oscorp.

$ Could not export product out of market.

$ Have a nice day.

exportSuccessful.in

Add SpiderMan 100

Import SpiderMan Oscorp 20

Export SpiderMan Oscorp 10

Export SpiderMan Oscorp 9

Inventory SpiderMan

Amount SpiderMan Oscorp

Balance SpiderMan

Exit

exportSuccessful.out

$ Success.

$ Trader now has 20.00 units of Oscorp.

$ Trader now has 10.00 units of Oscorp.

$ Trader now has 1.00 units of Oscorp.

$ Oscorp

$ 1.00

$ 100.00

$ Have a nice day.

exportMultipleTraders.in

add JeffBezos 1000

add SpiderMan 100

add DarthVader 5000

export DarthVader DeathStar 100

import SpiderMan Oscorp 20

import JeffBezos AWS 200

export JeffBezos AWS 100

export SpiderMan Oscorp 20

export ElonMusk YeetStock 50

inventory JeffBezos

amount SpiderMan Oscorp

exit

exportMultipleTraders.out

$ Success.

$ Success.

$ Success.

$ Could not export product out of market.

$ Trader now has 20.00 units of Oscorp.

$ Trader now has 200.00 units of AWS.

$ Trader now has 100.00 units of AWS.

$ Trader now has 0.00 units of Oscorp.

$ No such trader in the market.

$ AWS

$ Product not in inventory.

$ Have a nice day.

exportMultipleStocks.in

add SpiderMan 100

import SpiderMan Oscorp 20

import SpiderMan YeetStock 50

import SpiderMan AWS 100

export SpiderMan Oscorp 10

export SpiderMan YeetStock 5

export SpiderMan DeathStar 50

amount SpiderMan Oscorp

amount SpiderMan YeetStock

exit

exportMultipleStocks.out

$ Success.

$ Trader now has 20.00 units of Oscorp.

$ Trader now has 50.00 units of YeetStock.

$ Trader now has 100.00 units of AWS.

$ Trader now has 10.00 units of Oscorp.

$ Trader now has 45.00 units of YeetStock.

$ Could not export product out of market.

$ 10.00

$ 45.00

$ Have a nice day.

exportNoProduct.in

add SpiderMan 100

import SpiderMan Oscorp 20

export SpiderMan YeetStock 100

export SpiderMan DeathStar -5

exit

exportNoProduct.out

$ Success.

$ Trader now has 20 units of Oscorp.

$ Could not export product out of market.

$ Could not export product out of market.

$ Have a nice day.

inventoryAfterExport.in

add SpiderMan 100

add ElonMusk 1000

import SpiderMan Oscorp 20

import SpiderMan YeetStock 50

inventory SpiderMan

export SpiderMan Oscorp 20

inventory SpiderMan

import ElonMusk YeetStock 100

inventory ElonMusk

export ElonMusk YeetStock 100

inventory ElonMusk

exit

inventoryAfterExport.out

$ Success.

$ Success.

$ Trader now has 20.00 units of Oscorp.

$ Trader now has 50.00 units of YeetStock.

$ Oscorp

YeetStock

$ Trader now has no units of Oscorp.

$ YeetStock

$ Trader now has 100.00 units of YeetStock.

$ YeetStock

$ Trader now has no units of YeetStock.

$ Trader has an empty inventory.

$ Have a nice day.

amountAfterExport.in

add SpiderMan 100

import SpiderMan Oscorp 20

amount SpiderMan Oscorp

export SpiderMan Oscorp 5

amount SpiderMan Oscorp

export SpiderMan Oscorp 15

amount SpiderMan Oscorp

exit

amountAfterExport.out

$ Success.

$ Trader now has 20.00 units of Oscorp.

$ 20.00

$ Trader now has 15.00 units of Oscorp.

$ 15.00

$ Trader now has no units of Oscorp.

$ Product not in inventory.

$ Have a nice day.

traderNoTrader.in

TRADERS

exit

traderNoTrader.out

$ No traders in the market.

$ Have a nice day.

traderOneTrader.in

add ElonMusk 500

traders

exit

traderOneTrader.out

$ Success.

$ ElonMusk

$ Have a nice day.

traderMultipleTraders.in

Add ElonMusk 500

Add SpiderMan 100

Add DarthVader 5000

Add JeffBezos 1000

Traders

Exit

traderMultipleTraders.out

$ Success.

$ Success.

$ Success.

$ Success.

$ DarthVader

ElonMusk

JeffBezos

SpiderMan

$ Have a nice day.

sellNoTrader.in

sell ElonMusk YeetStock 50 10

exit

sellNoTrader.out

$ No such trader in the market.

$ Have a nice day.

sellProductNotExist.in

ADD ElonMusk 1000

IMPORT ElonMusk YeetStock 100

SELL ElonMusk DeathStar 50 20

EXIT

sellProductNotExist.out

$ Success.

$ Trader now has 100.00 units of YeetStock.

$ Order could not be placed onto the market.

$ Have a nice day.

sellOrderToSellBook.in

ADD ElonMusk 1000

ADD DarthVader 5000

IMPORT ElonMusk YeetStock 100

Import DarthVader DeathStar 200

sell ElonMusk YeetStock 50 80

sell DarthVader DeathStar 199 100

exit

sellOrderToSellBook.out

$ Success.

$ Success.

$ Trader now has 100.00 units of YeetStock.

$ Trader now has 200.00 units of DeathStar.

$ No trades could be made, order added to sell book.

$ No trades could be made, order added to sell book.

$ Have a nice day.

bookSellEmpty.in

ADD ElonMusk 1000

IMPORT ElonMusk YeetStock 100

BOOK SELL

EXIT

bookSellEmpty.out

$ Success.

$ Trader now has 100.00 units of YeetStock.

$ The sell book is empty.

$ Have a nice day.

bookSellSuccess.in

add DarthVader 5000

add SpiderMan 100

import DarthVader DeathStar 200

import SpiderMan Oscorp 50

sell DarthVader DeathStar 50 50

sell SpiderMan Oscorp 10 20

book sell

sell SpiderMan Oscorp 10 20

book sell

exit

bookSellSuccess.out

$ Success.

$ Success.

$ Trader now has 200.00 units of DeathStar.

$ Trader now has 50.00 units of Oscorp.

$ No trades could be made, order added to sell book.

$ No trades could be made, order added to sell book.

$ DarthVader: SELL 50.00xDeathStar @ $50.00

SpiderMan: SELL 10.00xOscorp @ $20.00

$ No trades could be made, order added to sell book.

$ DarthVader: SELL 50.00xDeathStar @ $50.00

SpiderMan: SELL 10.00xOscorp @ $20.00

SpiderMan: SELL 10.00xOscorp @ $20.00

$ Have a nice day.

buyNoTrader.in

buy DarthVader DeathStar 100 10

exit

buyNoTrader.out

$ No such trader in the market.

$ Have a nice day.

buyOrderToBuyBook.in

Add DarthVader 5000

Add SpiderMan 500

Import DarthVader DeathStar 200

Buy SpiderMan DeathStar 20 20

Buy DarthVader Oscorp 20 50

Buy DarthVader YeetStock 50 40

Book Buy

exit

buyOrderToBuyBook.out

$ Success.

$ Success.

$ Trader now has 200.00 units of DeathStar.

$ No trades could be made, order added to buy book.

$ No trades could be made, order added to buy book.

$ No trades could be made, order added to buy book.

$ SpiderMan: BUY 20.00xDeathStar @ $20.00

DarthVader: BUY 20.00xOscorp @ $50.00

DarthVader: BUY 50.00xYeetStock @ $40.00

$ Have a nice day.

tradesNoTrades.in

Add ElonMusk 1000

Add JeffBezos 2000

Import ElonMusk YeetStock 50

Trades

Exit

tradesNoTrades.out

$ Success.

$ Success.

$ Trader now has 50.00 units of YeetStock.

$ No traders in the market.

$ Have a nice day.

tradesSuccessful.in

Add SpiderMan 1000

Add DocOck 2000

Add Vulture 500

Add GreenGoblin 200

Import GreenGoblin Oscorp 50

Buy SpiderMan Oscorp 10 100

Buy DocOck Oscorp 20 200

Buy Vulture Oscorp 5 50

Sell GreenGoblin Oscorp 40 50

Trades

Exit

tradesSuccessful.out

$ Success.

$ Success.

$ Success.

$ Success.

$ Trader now has 50.00 units of Oscorp.

$ No trades could be made, order added to buy book.

$ No trades could be made, order added to buy book.

$ No trades could be made, order added to buy book.

$ Product sold in part, trades as follows:

GreenGoblin->DocOck: 20.00xOscorp for $200.00.

GreenGoblin->SpiderMan: 10.00xOscorp for $100.00.

GreenGoblin->Vulture: 5.00xOscorp for $50.00.

$ GreenGoblin->DocOck: 20.00xOscorp for $200.00.

GreenGoblin->SpiderMan: 10.00xOscorp for $100.00.

GreenGoblin->Vulture: 5.00xOscorp for $50.00.

$ Have a nice day.

tradesTraderNoTrader.in

TRADES TRADER SpiderMan

EXIT

tradesTraderNoTrader.out

$ No such trader in the market.

$ Have a nice day.

tradesTraderNoTrades.in

Add SpiderMan 100

Add ElonMusk 1000

Trades Trader SpiderMan

Trades Trader ElonMusk

Exit

tradesTraderNoTrades.out

$ Success.

$ Success.

$ No trades have been completed by trader.

$ No trades have been completed by trader.

$ Have a nice day.

tradesTraderSuccessful.in

Add SpiderMan 1000

Add DocOck 2000

Add Vulture 500

Add GreenGoblin 200

Import GreenGoblin Oscorp 50

Buy SpiderMan Oscorp 10 100

Buy DocOck Oscorp 20 200

Buy Vulture Oscorp 5 50

Sell GreenGoblin Oscorp 40 50

Trades Trader GreenGoblin

Trades Trader DocOck

Exit

tradesTraderSuccessful.out

$ Success.

$ Success.

$ Success.

$ Success.

$ Trader now has 50.00 units of Oscorp.

$ No trades could be made, order added to buy book.

$ No trades could be made, order added to buy book.

$ No trades could be made, order added to buy book.

$ Product sold in part, trades as follows:

GreenGoblin->DocOck: 20.00xOscorp for $200.00.

GreenGoblin->SpiderMan: 10.00xOscorp for $100.00.

GreenGoblin->Vulture: 5.00xOscorp for $50.00.

$ GreenGoblin->DocOck: 20.00xOscorp for $200.00.

GreenGoblin->SpiderMan: 10.00xOscorp for $100.00.

GreenGoblin->Vulture: 5.00xOscorp for $50.00.

$ GreenGoblin->DocOck: 20.00xOscorp for $200.00.

$ Have a nice day.

sellFullSell.in

add DarthVader 5000

add LukeSkywalker 1000

add HanSolo 2000

add Chewbacca 1500

import DarthVader DeathStar 100

buy LukeSkywalker DeathStar 50 50

buy HanSolo DeathStar 40 40

buy Chewbacca DeathStar 10 50

book sell

sell DarthVader DeathStar 100 30

book sell

book buy

exit

sellFullSell.out

$ Success.

$ Success.

$ Success.

$ Success.

$ Trader now has 100.00 units of DeathStar.

$ No trades could be made, order added to buy book.

$ No trades could be made, order added to buy book.

$ No trades could be made, order added to buy book.

$ The sell book is empty.

$ Product sold in full, trades as follows:

DarthVader->LukeSkywalker: 50.00xDeathStar for $50.00.

DarthVader->Chewbacca: 10.00xDeathStar for $50.00.

DarthVader->HanSolo: 40.00xDeathStar for $40.00.

$ The sell book is empty.

$ The buy book is empty.

$ Have a nice day.

cancelSellNoProduct.in

CANCEL SELL 0000

EXIT

cancelSellNoProduct.out

$ No such order in sell book.

$ Have a nice day.

cancelBuyNoProduct.in

CANCEL BUY YeetStock

EXIT

cancelBuyNoProduct.out

$ No such order in buy book.

$ Have a nice day.

cancelSellSuccessful.in

add DarthVader 5000

add LukeSkywalker 1000

add HanSolo 2000

import DarthVader DeathStar 200

import DarthVader YeetStock 50

sell DarthVader DeathStar 100 50

sell DarthVader YeetStock 50 20

book sell

cancel sell 0000

book sell

cancel sell 0001

book sell

exit

cancelSellSuccessful.out

$ Success.

$ Success.

$ Success.

$ Trader now has 200.00 units of DeathStar.

$ Trader now has 50.00 units of YeetStock.

$ No trades could be made, order added to sell book.

$ No trades could be made, order added to sell book.

$ 0000: SELL 100.00xDeathStar @ $50.00

0001: SELL 50.00xYeetStock @ $20.00

$ Order successfully cancelled.

$ 0001: SELL 50.00xYeetStock @ $20.00

$ Order successfully cancelled.

$ Have a nice day.

cancelBuySuccessful.in

add DarthVader 5000

add LukeSkywalker 1000

add HanSolo 2000

buy LukeSkywalker DeathStar 10 30

buy HanSolo DeathStar 20 20

book buy

cancel buy DeathStar

book buy

cancelBuySuccessful.out

tradesProductNoProduct.in

TRADES PRODUCT YeetStock

EXIT

tradesProductNoProduct.out

$ No trades have been completed with given product.

$ Have a nice day.

tradesProductNoTrade.in

Add ElonMusk 2000

Import ElonMusk YeetStock 100

Sell ElonMusk YeetStock 50 20

Trades Product YeetStock

Exit

tradesProductNoTrade.out

$ Success.

$ Trader now has 100.00 units of YeetStock.

$ No trades could be made, order added to sell book.

$ No trades have been completed with given product.

$ Have a nice day.

cancelBuySuccessful.in

add DarthVader 5000

add LukeSkywalker 1000

add HanSolo 2000

buy LukeSkywalker DeathStar 10 30

buy HanSolo DeathStar 20 20

book buy

cancel buy 0000

book buy

cancel buy 0001

book buy

exit

cancelBuySuccessful.out

$ Success.

$ Success.

$ Success.

$ No trades could be made, order added to buy book.

$ No trades could be made, order added to buy book.

$ 0000: BUY 10.00xDeathStar @ $30.00

0001: BUY 20.00xDeathStar @ $20.00

$ Order successfully cancelled.

$ 0001: BUY 20.00xDeathStar @ $20.00

$ Order successfully cancelled.

$ Have a nice day.

cancelSellSuccessful.in

add DarthVader 5000

add LukeSkywalker 1000

add HanSolo 2000

import DarthVader DeathStar 200

import DarthVader YeetStock 50

sell DarthVader DeathStar 100 50

sell DarthVader YeetStock 50 20

book sell

cancel sell DeathStar

book sell

cancel sell YeetStock

book sell

exit

cancelSellSuccessful.out

$ Success.

$ Success.

$ Success.

$ Trader now has 200.00 units of DeathStar.

$ Trader now has 50.00 units of YeetStock.

$ No trades could be made, order added to sell book.

$ No trades could be made, order added to sell book.

$ 0000: SELL 100.00xDeathStar @ $50.00

0001: SELL 50.00xYeetStock @ $20.00

$ Order successfully cancelled.

$ 0001: SELL 50.00xYeetStock @ $20.00

$ Order successfully cancelled.

$ The sell book is empty.

$ Have a nice day.

cancelBuySuccessful.in

add DarthVader 5000

add LukeSkywalker 1000

add HanSolo 2000

buy LukeSkywalker DeathStar 10 30

buy HanSolo DeathStar 20 20

book buy

cancel buy 0000

book buy

cancel buy 0001

book buy

exit

cancelBuySuccessful.out

$ Success.

$ Success.

$ Success.

$ No trades could be made, order added to buy book.

$ No trades could be made, order added to buy book.

$ 0000: BUY 10.00xDeathStar @ $30.00

0001: BUY 20.00xDeathStar @ $20.00

$ Order successfully cancelled.

$ 0001: BUY 20.00xDeathStar @ $20.00

$ Order successfully cancelled.

$ The buy book is empty.

$ Have a nice day.

sellMoreThanAmountStored.in

ADD SpiderMan 100

IMPORT SpiderMan Oscorp 20

SELL SpiderMan Oscorp 30 10

BOOK SELL  
EXIT

sellMoreThanAmountStored.out

$ Success.

$ Trader now has 20.00 units of Oscorp.

$ Order could not be placed onto the market.

$ The sell book is empty.

$ Have a nice day.

sellTraderFirst.in

add SpiderMan 100

add DocOck 500

add Vulture 200

add GreenGoblin 1000

import GreenGoblin Oscorp 50

sell GreenGoblin Oscorp 30 10

book sell

buy DocOck Oscorp 10 20

book sell

buy Vulture Oscorp 10 15

book sell

buy SpiderMan Oscorp 10 5

book buy

exit

sellTraderFirst.out

$ Success.

$ Success.

$ Success.

$ Success.

$ Trader now has 50.00 units of Oscorp.

$ No trades could be made, order added to sell book.

$ 0000: SELL 30.00xOscorp @ $10.00

$ Product bought in entirety, trades as follows:

GreenGoblin->DocOck: 10.00xOscorp for $10.00.

$ 0000: SELL 20.00xOscorp @ $10.00

$ Product bought in entirety, trades as follows:

GreenGoblin->Vulture: 10.00xOscorp for $10.00.

$ 0000: SELL 10.00xOscorp @ $10.00

$ No trades could be made, order added to buy book.

$ 0003: BUY 10.00xOscorp @ $5.00

$ Have a nice day.

sellTraderFirstPartial.in

Add SpiderMan 200

Add GreenGoblin 1000

Import GreenGoblin Oscorp 100

Sell GreenGoblin Oscorp 5 10

Amount GreenGoblin Oscorp

Buy SpiderMan Oscorp 10 15

Book Buy

Book Sell

Exit

sellTraderFirstPartialBuy.out

$ Success.

$ Success.

$ Trader now has 100.00 units of Oscorp.

$ No trades could be made, order added to sell book.

$ 95.00

$ Product bought in part, trades as follows:

GreenGoblin->SpiderMan: 5.00xOscorp for $10.00.

$ 0001: BUY 5.00xOscorp @ $15.00

$ The sell book is empty.

$ Have a nice day.

inventoryCancelSell.in

add ElonMusk 2000

import ElonMusk YeetStock 100

sell ElonMusk YeetStock 100 10

inventory ElonMusk

cancel sell 0000

inventory ElonMusk

exit

inventoryCancelSell.out

$ Success.

$ Trader now has 100.00 units of YeetStock.

$ No trades could be made, order added to sell book.

$ Trader has an empty inventory.

$ Order successfully cancelled.

$ YeetStock

$ Have a nice day.

sellMultipleSellers.in

add ElonMusk 1000

add DarthVader 5000

import ElonMusk YeetStock 100

import DarthVader DeathStar 100

sell ElonMusk YeetStock 100 10

book sell

sell DarthVader DeathStar 60 20

book sell

cancel sell 0000

exit

sellMultipleSellers.out

$ Success.

$ Success.

$ Trader now has 100.00 units of YeetStock.

$ Trader now has 100.00 units of DeathStar.

$ No trades could be made, order added to sell book.

$ 0000: SELL 100.00xYeetStock @ $10.00

$ No trades could be made, order added to sell book.

$ 0000: SELL 100.00xYeetStock @ $10.00

0001: SELL 60.00xDeathStar @ $20.00

$ Order successfully cancelled.

$ Have a nice day.

amountCancelSell.in

ADD JeffBezos 2000

Import JeffBezos AWS 100

Sell JeffBezos AWS 60 100

amount JeffBezos AWS

cancel sell 0000

amount JeffBezos AWS

EXit

amountCancelSell.out

$ Success.

$ Trader now has 100.00 units of AWS.

$ No trades could be made, order added to sell book.

$ 40.00

$ Order successfully cancelled.

$ 100.00

$ Have a nice day.

buyPartial.in

add SpiderMan 100

import SpiderMan Oscorp 10

buy SpiderMan Oscorp 20 10

sell SpiderMan Oscorp 10 10

book sell

book buy

exit

buyPartial.out

$ Success.

$ Trader now has 10.00 units of Oscorp.

$ No trades could be made, order added to buy book.

$ Product sold in entirety, trades as follows:

SpiderMan->SpiderMan: 10.00xOscorp for $10.00.

$ The sell book is empty.

$ 0000: BUY 10.00xOscorp @ $10.00

$ Have a nice day.

inventoryAfterChange.in

Add ElonMusk 1000

Add JeffBezos 2000

Import ElonMusk YeetStock 100

Inventory ElonMusk

Inventory JeffBezos

Sell ElonMusk YeetStock 100 10

Buy JeffBezos YeetStock 100 10

Inventory ElonMusk

Inventory JeffBezos

Exit

inventoryAfterChange.out

$ Success.

$ Success.

$ Trader now has 100.00 units of YeetStock.

$ YeetStock

$ Trader has an empty inventory.

$ No trades could be made, order added to sell book.

$ Product bought in entirety, trades as follows:

ElonMusk->JeffBezos: 100.00xYeetStock for $10.00.

$ Trader has an empty inventory.

$ YeetStock

$ Have a nice day.

amountAfterChange.in

Add ElonMusk 1000

Add JeffBezos 2000

Import JeffBezos AWS 100 10

Amount JeffBezos AWS

Sell JeffBezos AWS 50 10

Buy ElonMusk AWS 50 20

Amount JeffBezos AWS

Amount ElonMusk AWS

Sell JeffBezos AWS 40 30

Buy ElonMusk AWS 30 30

Amount JeffBezos AWS

Amount ElonMusk AWS

Exit

amountAfterChange.out

$ Success.

$ Success.

$ Trader now has 100.00 units of AWS.

$ 100.00

$ No trades could be made, order added to sell book.

$ Product bought in entirety, trades as follows:

JeffBezos->ElonMusk: 50.00xAWS for $10.00.

$ 50.00

$ 50.00

$ No trades could be made, order added to sell book.

$ Product bought in entirety, trades as follows:

JeffBezos->ElonMusk: 30.00xAWS for $30.00.

$ 10.00

$ 80.00

$ Have a nice day.

orderNoIDMatch.in

order 0000

add SpiderMan 100

import SpiderMan Oscorp 20

order 0001

exit

orderNoIDMatch.out

$ No orders in either book in the market.

$ Success.

$ Trader now has 20.00 units of Oscorp.

$ No orders in either book in the market.

$ Have a nice day.

orderNoOrderMatch.in

Add SpiderMan 100

Add GreenGoblin 1000

Import GreenGoblin Oscorp 10

Sell GreenGoblin Oscorp 10 20

Buy SpiderMan Oscorp 5 20

Book buy

Book sell

Order 0002

Exit

orderNoOrderMatch.out

$ Success.

$ Success.

$ Trader now has 10.00 units of Oscorp.

$ No trades could be made, order added to sell book.

$ Product bought in entirety, trades as follows:

GreenGoblin->SpiderMan: 5.00xOscorp for $20.00.

$ The buy book is empty.

$ 0000: SELL 5.00xOscorp @ $20.00

$ Order is not present in either order book.

$ Have a nice day.

orderNotExistAfterTrade.in

add DarthVader 1000

add LukeSkywalker 500

Import DarthVader DeathStar 25

Sell DarthVader DeathStar 20 10

Buy LukeSkywalker DeathStar 20 20

Order 0001

Order 0000

Exit

orderNotExistAfterTrade.out

$ Success.

$ Success.

$ Trader now has 25.00 units of DeathStar.

$ No trades could be made, order added to sell book.

$ Product bought in entirety, trades as follows:

DarthVader->LukeSkywalker: 20.00xDeathStar for $10.00.

$ No orders in either book in the market.

$ No orders in either book in the market.

$ Have a nice day.

buyNegativeBalanceAfter.in

add DarthVader 0

add SpiderMan 100

import DarthVader DeathStar 20

Sell DarthVader DeathStar 20 10

Buy SpiderMan DeathStar 20 10

Balance DarthVader

Balance SpiderMan

Exit

buyNegativeBalanceAfter.out

$ Success.

$ Success.

$ Trader now has 20.00 units of DeathStar.

$ No trades could be made, order added to sell book.

$ Product bought in entirety, trades as follows:

DarthVader->SpiderMan: 20.00xDeathStar for $10.00.

$ $200.00

$ $-100.00

$ Have a nice day.

sellBalanceNegativeToPositive.in

add SpiderMan 0

add DarthVader 100

import SpiderMan Oscorp 10

import DarthVader DeathStar 20

buy SpiderMan DeathStar 15 10

sell DarthVader DeathStar 10 10

balance SpiderMan

balance DarthVader

sell SpiderMan Oscorp 10 30

buy DarthVader Oscorp 9 40

balance SpiderMan

balance DarthVader

exit

sellBalanceNegativeToPositive.out

$ Success.

$ Success.

$ Trader now has 10.00 units of Oscorp.

$ Trader now has 20.00 units of DeathStar.

$ No trades could be made, order added to buy book.

$ Product sold in entirety, trades as follows:

DarthVader->SpiderMan: 10.00xDeathStar for $10.00.

$ $-100.00

$ $200.00

$ No trades could be made, order added to sell book.

$ Product bought in entirety, trades as follows:

SpiderMan->DarthVader: 9.00xOscorp for $30.00.

$ $170.00

$ $-70.00

$ Have a nice day.

tradesProductSuccessful.in

Add SpiderMan 200

Add DocOck 1000

Add Vulture 500

Add GreenGoblin 30

Import GreenGoblin Oscorp 100

Sell GreenGoblin Oscorp 100 20

Buy SpiderMan Oscorp 5 20

Buy DocOck Oscorp 50 20

Buy Vulture Oscorp 20 25

Trades

Add DarthVader 1000

Add LukeSkywalker 2000

Add HanSolo 5000

Add Chewbacca 1500

Import DarthVader DeathStar 50

Buy LukeSkywalker DeathStar 20 40

Buy HanSolo DeathStar 20 50

Buy Chewbacca DeathStar 20 30

Sell DarthVader DeathStar 50 30

Trades

Exit

tradesProductSuccessful.out

$ Success.

$ Success.

$ Success.

$ Success.

$ Trader now has 100.00 units of Oscorp.

$ No trades could be made, order added to sell book.

$ Product bought in entirety, trades as follows:

GreenGoblin->SpiderMan: 5.00xOscorp for $20.00.

$ Product bought in entirety, trades as follows:

GreenGoblin->DocOck: 50.00xOscorp for $20.00.

$ Product bought in entirety, trades as follows:

GreenGoblin->Vulture: 20.00xOscorp for $20.00.

$ GreenGoblin->SpiderMan: 5.00xOscorp for $20.00.

GreenGoblin->DocOck: 50.00xOscorp for $20.00.

GreenGoblin->Vulture: 20.00xOscorp for $20.00.

$ Success.

$ Success.

$ Success.

$ Success.

$ Trader now has 50.00 units of DeathStar.

$ No trades could be made, order added to buy book.

$ No trades could be made, order added to buy book.

$ No trades could be made, order added to buy book.

$ Product sold in entirety, trades as follows:

DarthVader->HanSolo: 20.00xDeathStar for $50.00.

DarthVader->LukeSkywalker: 20.00xDeathStar for $40.00.

DarthVader->Chewbacca: 10.00xDeathStar for $30.00.

$ GreenGoblin->SpiderMan: 5.00xOscorp for $20.00.

GreenGoblin->DocOck: 50.00xOscorp for $20.00.

GreenGoblin->Vulture: 20.00xOscorp for $20.00.

DarthVader->HanSolo: 20.00xDeathStar for $50.00.

DarthVader->LukeSkywalker: 20.00xDeathStar for $40.00.

DarthVader->Chewbacca: 10.00xDeathStar for $30.00.

$ Have a nice day.

sellCompleteByParts.in

add GreenGoblin 1000

add SpiderMan 1000

add DocOck 2000

add Vulture 1500

import GreenGoblin Oscorp 50

sell GreenGoblin Oscorp 50 20

buy SpiderMan Oscorp 20 30

book sell

buy DocOck Oscorp 20 40

book sell

buy Vulture Oscorp 20 25

book sell

book buy

exit

sellCompleteByParts.out

$ Success.

$ Success.

$ Success.

$ Success.

$ Trader now has 50.00 units of Oscorp.

$ No trades could be made, order added to sell book.

$ Product bought in entirety, trades as follows:

GreenGoblin->SpiderMan: 20.00xOscorp for $20.00.

$ 0000: SELL 30.00xOscorp @ $20.00

$ Product bought in entirety, trades as follows:

GreenGoblin->DocOck: 20.00xOscorp for $20.00.

$ 0000: SELL 10.00xOscorp @ $20.00

$ Product bought in part, trades as follows:

GreenGoblin->Vulture: 10.00xOscorp for $20.00.

$ The sell book is empty.

$ 0003: BUY 10.00xOscorp @ $25.00

$ Have a nice day.

bookSellAfterTrade.in

add ElonMusk 1000

add JeffBezos 2000

import ElonMusk YeetStock 100

import JeffBezos AWS 200

import JeffBezos YeetStock 10

sell JeffBezos YeetStock 10 50

book sell

sell JeffBezos AWS 20 25

book sell

buy ElonMusk YeetStock 10 100

book sell

sell ElonMusk YeetStock 100 100

book sell

buy JeffBezos YeetStock 50 100

book sell

exit

bookSellAfterTrade.out

$ Success.

$ Success.

$ Trader now has 100.00 units of YeetStock.

$ Trader now has 200.00 units of AWS.

$ Trader now has 10.00 units of YeetStock.

$ No trades could be made, order added to sell book.

$ 0000: SELL 10.00xYeetStock @ $50.00

$ No trades could be made, order added to sell book.

$ 0000: SELL 10.00xYeetStock @ $50.00

0001: SELL 20.00xAWS @ $25.00

$ Product bought in entirety, trades as follows:

JeffBezos->ElonMusk: 10.00xYeetStock for $50.00.

$ 0001: SELL 20.00xAWS @ $25.00

$ No trades could be made, order added to sell book.

$ 0001: SELL 20.00xAWS @ $25.00

0003: SELL 100.00xYeetStock @ $100.00

$ Product bought in entirety, trades as follows:

ElonMusk->JeffBezos: 50.00xYeetStock for $100.00.

$ 0001: SELL 20.00xAWS @ $25.00

0003: SELL 50.00xYeetStock @ $100.00

$ Have a nice day.

bookSellCancelledTrade.in

add JeffBezos 2000

add ElonMusk 1000

import JeffBezos AWS 100

import ElonMusk YeetStock 40

sell JeffBezos AWS 50 2000

sell ElonMusk YeetStock 40 1

book sell

cancel sell 0001

book sell

cancel sell 0000

book sell

exit

bookSellCancelledTrade.out

$ Success.

$ Success.

$ Trader now has 100.00 units of AWS.

$ Trader now has 40.00 units of YeetStock.

$ No trades could be made, order added to sell book.

$ No trades could be made, order added to sell book.

$ 0000: SELL 50.00xAWS @ $2000.00

0001: SELL 40.00xYeetStock @ $1.00

$ Order successfully cancelled.

$ 0000: SELL 50.00xAWS @ $2000.00

$ Order successfully cancelled.

$ The sell book is empty.

$ Have a nice day.

bookBuyEmpty.in

ADD SpiderMan 100

IMPORT SpiderMan Oscorp 10

Sell SpiderMan Oscorp 10 2

BOOK BUY

EXIT

bookBuyEmpty.out

$ Success.

$ Trader now has 10.00 units of Oscorp.

$ No trades could be made, order added to sell book.

$ The buy book is empty.

$ Have a nice day.

bookBuySuccess.in

Add SpiderMan 100

Add DocOck 2000

Add Vulture 1000

Add GreenGoblin 5000

Buy SpiderMan Oscorp 20 5

Buy DocOck Oscorp 200 10

Buy Vulture Oscorp 5 20

Book Buy

Buy SpiderMan YeetStock 100 1

Book Buy  
Exit

bookBuySuccess.out

$ Success.

$ Success.

$ Success.

$ Success.

$ No trades could be made, order added to buy book.

$ No trades could be made, order added to buy book.

$ No trades could be made, order added to buy book.

$ 0000: BUY 20.00xOscorp @ $5.00

0001: BUY 200.00xOscorp @ $10.00

0002: BUY 5.00xOscorp @ $20.00

$ No trades could be made, order added to buy book.

$ 0000: BUY 20.00xOscorp @ $5.00

0001: BUY 200.00xOscorp @ $10.00

0002: BUY 5.00xOscorp @ $20.00

0003: BUY 100.00xYeetStock @ $1.00

$ Have a nice day.

bookBuyAfterTrade.in

add DarthVader 5000

add LukeSkywalker 2000

add HanSolo 1500

add Chewbacca 1000

import DarthVader DeathStar 100

buy LukeSkywalker DeathStar 10 50

buy HanSolo DeathStar 200 40

buy Chewbacca DeathStar 30 10

book buy

sell DarthVader DeathStar 60 30

book buy

sell DarthVader DeathStar 20 10

book buy

exit

bookBuyAfterTrade.out

$ Success.

$ Success.

$ Success.

$ Success.

$ Trader now has 100.00 units of DeathStar.

$ No trades could be made, order added to buy book.

$ No trades could be made, order added to buy book.

$ No trades could be made, order added to buy book.

$ 0000: BUY 10.00xDeathStar @ $50.00

0001: BUY 200.00xDeathStar @ $40.00

0002: BUY 30.00xDeathStar @ $10.00

$ Product sold in entirety, trades as follows:

DarthVader->LukeSkywalker: 10.00xDeathStar for $50.00.

DarthVader->HanSolo: 50.00xDeathStar for $40.00.

$ 0001: BUY 150.00xDeathStar @ $40.00

0002: BUY 30.00xDeathStar @ $10.00

$ Product sold in entirety, trades as follows:

DarthVader->HanSolo: 20.00xDeathStar for $40.00.

$ 0001: BUY 130.00xDeathStar @ $40.00

0002: BUY 30.00xDeathStar @ $10.00

$ Have a nice day.

bookBuyCancelledTrade.in

add SpiderMan 100

add DocOck 200

add Vulture 0

buy SpiderMan Oscorp 100 10

buy SpiderMan Oscorp 50 20

buy DocOck Oscorp 50 30

buy Vulture Oscorp 30 25

book buy

cancel buy 0001

cancel buy 0003

book buy

buy SpiderMan YeetStock 10 2

book buy

cancel buy 0004

book buy

exit

bookBuyCancelledTrade.out

$ Success.

$ Success.

$ Success.

$ No trades could be made, order added to buy book.

$ No trades could be made, order added to buy book.

$ No trades could be made, order added to buy book.

$ No trades could be made, order added to buy book.

$ 0000: BUY 100.00xOscorp @ $10.00

0001: BUY 50.00xOscorp @ $20.00

0002: BUY 50.00xOscorp @ $30.00

0003: BUY 30.00xOscorp @ $25.00

$ Order successfully cancelled.

$ Order successfully cancelled.

$ 0000: BUY 100.00xOscorp @ $10.00

0002: BUY 50.00xOscorp @ $30.00

$ No trades could be made, order added to buy book.

$ 0000: BUY 100.00xOscorp @ $10.00

0002: BUY 50.00xOscorp @ $30.00

0004: BUY 10.00xYeetStock @ $2.00

$ Order successfully cancelled.

$ 0000: BUY 100.00xOscorp @ $10.00

0002: BUY 50.00xOscorp @ $30.00

$ Have a nice day.

orderSuccessful.in

add DarthVader 5000

add LukeSkywalker 100

add HanSolo 500

add Chewbacca 500

import DarthVader DeathStar 50

buy LukeSkywalker DeathStar 20 20

ORDER 0000

Sell DarthVader DeathStar 40 10

ORDER 0001

buy HanSolo DeathStar 10 50

buy Chewbacca DeathStar 15 25

buy DarthVader YeetStock 1000 0.5

ORDER 0003

ORDER 0004

exit

orderSuccessful.out

$ Success.

$ Success.

$ Success.

$ Success.

$ Trader now has 50.00 units of DeathStar.

$ No trades could be made, order added to buy book.

$ 0000: BUY 20.00xDeathStar @ $20.00

$ Product sold in part, trades as follows:

DarthVader->LukeSkywalker: 20.00xDeathStar for $20.00.

$ 0001: SELL 20.00xDeathStar @ $10.00

$ Product bought in entirety, trades as follows:

DarthVader->HanSolo: 10.00xDeathStar for $10.00.

$ Product bought in part, trades as follows:

DarthVader->Chewbacca: 10.00xDeathStar for $10.00.

$ No trades could be made, order added to buy book.

$ 0003: BUY 5.00xDeathStar @ $25.00

$ 0004: BUY 1000.00xYeetStock @ $0.50

saveSuccessful.in

add ElonMusk 100

add JeffBezos 1000

import ElonMusk YeetStock 30

sell ElonMusk YeetStock 25 20

buy JeffBezos YeetStock 20 100

save traders trades

exit

saveSuccessful.out

$ Success.

$ Success.

$ Trader now has 30.00 units of YeetStock.

$ No trades could be made, order added to sell book.

$ Product bought in entirety, trades as follows:

ElonMusk->JeffBezos: 20.00xYeetStock for $20.00.

$ Success.

$ Have a nice day.

binarySuccessful.in

add ElonMusk 1000

add JeffBezos 0

import JeffBezos AWS 10

buy ElonMusk AWS 20 100

Sell JeffBezos AWS 10 75

Binary traders.bin trades.bin

Exit

binarySuccessful.out

$ Success.

$ Success.

$ Trader now has 10.00 units of AWS.

$ No trades could be made, order added to buy book.

$ Product sold in entirety, trades as follows:

JeffBezos->ElonMusk: 10.00xAWS for $100.00.

$ Success.

$ Have a nice day.

comprehensiveDecimalValues.in

add SpiderMan 0.01

add GreenGoblin 10000.23456424

add DocOck 3334.400

add Vulture 20

add Mysterio 0.999999

add Electro 1.0000

add ElonMusk -20.01

import GreenGoblin Oscorp 22.0609

balance Vulture

balance DocOck

inventory SpiderMan

inventory GreenGoblin

amount GreenGoblin Oscorp

amount Electro Oscorp

import GreenGoblin Oscorp 53.9084

amount GreenGoblin Oscorp

traders

buy SpiderMan Oscorp 2.3 0.009384

buy DocOck Oscorp 10.2 3.4

book buy

cancel buy 0000

book buy

book sell

sell GreenGoblin Oscorp 32 0.005

book sell

cancel sell 0002

book sell

buy Vulture Oscorp 9.95 15.35

book buy

sell GreenGoblin Oscorp 40 15.36

buy Mysterio Oscorp 0.01 30.00

buy Electro Oscorp 2.1 21

buy Electro Oscorp 3.9 15.37

book buy

book sell

trades

order 0000

order 0001

order 0003

trades trader GreenGoblin

trades trader DocOck

trades trader SpiderMan

balance Mysterio

inventory GreenGoblin

inventory Electro

amount Vulture Oscorp

amount DocOck Oscorp

export Vulture Oscorp 100

export DocOck Oscorp 0.2

import DocOck YeetStock 100.034

sell DocOck YeetStock 100.033 1.033

buy DocOck YeetStock 1 1

book buy

book sell

buy SpiderMan YeetStock 20.7 10

buy GreenGoblin YeetStock 80.9 20.0

sell DocOck YeetStock 0.001 1000

buy GreenGoblin YeetStock 1 999.9999

book buy

book sell

balance GreenGoblin

balance DocOck

inventory SpiderMan

inventory Vulture

amount GreenGoblin YeetStock

amount DocOck YeetStock

trades product YeetStock

trades product Oscorp

trades trader Vulture

trades trader DocOck

trades

save trader trades

binary trader.bin trades.bin

export SpiderMan YeetStock 0.1

exit

comprehensiveDecimalValues.out

$ Success.

$ Success.

comprehensiveAllUpperCase.in

ADD DarthVader 1000

ADD LukeSkywalker 500

ADD HanSolo 1000

ADD Chewbacca 300

ADD R2D2 250

ADD C3PO 150

BALANCE DarthVader

INVENTORY LukeSkywalker

TRADERS

TRADES TRADER HanSolo

BOOK SELL

IMPORT DarthVader DeathStar 100

INVENTORY DarthVader

AMOUNT DarthVader DeathStar

BUY LukeSkywalker DeathStar 10 25

BUY HanSolo DeathStar 15 20

BUY Chewbacca DeathStar 25 30

BUY R2D2 DeathStar 5 23

BOOK BUY

BOOK SELL

CANCEL BUY 0003

BUY C3PO DeathStar 5 25

BOOK BUY

ORDER 0000

ORDER 0001

ORDER 0002

ORDER 0003

SELL DarthVader DeathStar 15 25

BOOK BUY

BOOK SELL

TRADES

INVENTORY DarthVader

INVENTORY Chewbacca

AMOUNT Chewbacca DeathStar

INVENTORY HanSolo

TRADES TRADER DarthVader

IMPORT DarthVader DeathStar 20

EXPORT Chewbacca DeathStar 10

BALANCE Chewbacca

BALANCE DarthVader

AMOUNT DarthVader DeathStar

BUY Chewbacca DeathStar 20 20

SELL DarthVader DeathStar 105 20

BOOK BUY

BOOK SELL

TRADES

TRADES TRADER HanSolo

TRADES PRODUCT DeathStar

BALANCE LukeSkywalker

INVENTORY DarthVader

AMOUNT R2D2 DeathStar

AMOUNT C3PO DeathStar

ADD Palpatine 10

IMPORT Palpatine DeathStar2 50

SELL Palpatine DeathStar2 30 100

BUY DarthVader DeathStar2 25 100

BUY HanSolo DeathStar2 15 120

BOOK BUY

BOOK SELL

TRADES

TRADES PRODUCT DeathStar2

TRADES TRADER DarthVader

BALANCE Palpatine

SAVE trader trades

BINARY trader.bin trades.bin

EXIT

comprehensiveAllActionsFail

comprehensiveManyTrades.in

add ElonMusk 2000

add JeffBezos 2500

add DarthVader 5000

add SpiderMan 1000

balance ElonMusk

balance JeffBezos

balance DarthVader

balance SpiderMan

balance Obama

import ElonMusk YeetStock 100

import JeffBezos AWS 200

import DarthVader DeathStar 50

inventory ElonMusk

inventory JeffBezos

inventory DarthVader

inventory SpiderMan

inventory Obama

amount ElonMusk YeetStock

amount ElonMusk AWS

amount JeffBezos AWS

amount DarthVader DeathStar

amount Obama YeetStock

import SpiderMan Oscorp 35

amount SpiderMan Oscorp

inventory SpiderMan

traders

book buy

book sell

order ABCD

trades

trades trader ElonMusk

trades product YeetStock

trades trader Obama

trades product GameStonk

sell ElonMusk YeetStock 50 25

sell JeffBezos AWS 40 250

sell ElonMusk AWS 10 10

sell Obama Yeetstock 1 100000

sell SpiderMan Oscorp 30 5

book sell

cancel sell 0003

sell SpiderMan Oscorp 35 10

inventory SpiderMan

inventory JeffBezos

amount ElonMusk YeetStock

buy ElonMusk Oscorp 40 100

buy JeffBezos YeetStock 40 20

buy JeffBezos YeetStock 20 25

buy DarthVader AWS 5 250

buy ElonMusk AWS 5 250

buy SpiderMan AWS 5 250

buy JeffBezos AWS 5 250

buy Obama YeetStock 100 100

balance ElonMusk

balance JeffBezos

balance DarthVader

balance SpiderMan

inventory ElonMusk

inventory JeffBezos

inventory DarthVader

inventory SpiderMan

amount ElonMusk YeetStock

amount ElonMusk AWS

amount ElonMusk Oscorp

amount JeffBezos YeetStock

amount JeffBezos AWS

amount JeffBezos Oscorp

amount DarthVader YeetStock

amount DarthVader AWS

amount DarthVader Oscorp

amount SpiderMan YeetStock

amount SpiderMan AWS

amount SpiderMan Oscorp

trades

trades trader ElonMusk

trades trader JeffBezos

trades trader DarthVader

trades trader SpiderMan

trades product YeetStock

trades product AWS

trades product Oscorp

trades product DeathStar

book sell

book buy

import ElonMusk YeetStock 50

import JeffBezos YeetStock 50

import JeffBezos AWS 100

import DarthVader DeathStar 25

import SpiderMan Oscorp 70

buy ElonMusk YeetStock 100 90

buy ElonMusk DeathStar 25 50

buy JeffBezos YeetStock 200 60

buy DarthVader Oscorp 50 10

buy JeffBezos Oscorp 30 25

buy SpiderMan AWS 1 200

buy SpiderMan AWS 1 250

buy SpiderMan AWS 1 300

sell JeffBezos AWS 20 200

sell DarthVader DeathStar 20 40

sell DarthVader DeathStar 100 50

sell DarthVader DeathStar 50 50

buy ElonMusk DeathStar 25 50

buy ElonMusk DeathStar 15 40

buy ElonMusk AWS 10 200

buy ElonMusk Oscorp 10 4

buy JeffBezos Oscorp 100 4

buy DarthVader AWS 10 200

buy SpiderMan AWS 1 201

sell JeffBezos AWS 1 201

buy SpiderMan GameStonk 10 500

buy ElonMusk GameStonk 10 2000

balance ElonMusk

balance JeffBezos

balance DarthVader

balance SpiderMan

inventory ElonMusk

inventory JeffBezos

inventory DarthVader

inventory SpiderMan

amount ElonMusk YeetStock

amount ElonMusk AWS

amount ElonMusk Oscorp

amount ElonMusk DeathStar

amount JeffBezos YeetStock

amount JeffBezos AWS

amount JeffBezos Oscorp

amount JeffBezos DeathStar

amount DarthVader YeetStock

amount DarthVader AWS

amount DarthVader Oscorp

amount DarthVader DeathStar

amount SpiderMan YeetStock

amount SpiderMan AWS

amount SpiderMan Oscorp

amount SpiderMan DeathStar

trades

trades trader ElonMusk

trades trader JeffBezos

trades trader DarthVader

trades trader SpiderMan

trades product YeetStock

trades product AWS

trades product Oscorp

trades product DeathStar

book sell

book buy

save NoObama NoGameStonk

binary NoObama.bin NoGameStonk.bin

add Obama 0

balance Obama

import Obama GameStonk 20

inventory Obama

amount Obama GameStonk

trades trader Obama

buy JeffBezos GameStonk 5 5000

buy JeffBezos GameStonk 5 10000

buy ElonMusk GameStonk 5 11000

sell Obama GameStonk 5 11000

sell Obama GameStonk 5 10000

buy DarthVader GameStonk 1 0.1

buy Obama Oscorp 10 10

sell ElonMusk Oscorp 11 10

buy Obama YeetStock 100 80

buy Obama YeetStock 100 90

buy Obama YeetStock 100 100

import ElonMusk YeetStock 300

sell ElonMusk YeetStock 300 75

buy ElonMusk GameStonk 5 10000

sell Obama GameStonk 5 10001

buy JeffBezos GameStonk 5 10001

export Obama YeetStock 100

export JeffBezos AWS 20

export DarthVader YeetStock 10

export SpiderMan Oscorp 5

balance ElonMusk

balance JeffBezos

balance DarthVader

balance SpiderMan

balance Obama

inventory ElonMusk

inventory JeffBezos

inventory DarthVader

inventory SpiderMan

inventory Obama

amount ElonMusk YeetStock

amount ElonMusk AWS

amount ElonMusk Oscorp

amount ElonMusk DeathStar

amount ElonMusk GameStonk

amount JeffBezos YeetStock

amount JeffBezos AWS

amount JeffBezos Oscorp

amount JeffBezos DeathStar

amount JeffBezos GameStonk

amount DarthVader YeetStock

amount DarthVader AWS

amount DarthVader Oscorp

amount DarthVader DeathStar

amount DarthVader GameStonk

amount SpiderMan YeetStock

amount SpiderMan AWS

amount SpiderMan Oscorp

amount SpiderMan DeathStar

amount SpiderMan GameStonk

amount Obama YeetStock

amount Obama AWS

amount Obama Oscorp

amount Obama DeathStar

amount Obama GameStonk

trades

trades trader ElonMusk

trades trader JeffBezos

trades trader DarthVader

trades trader SpiderMan

trades product YeetStock

trades product AWS

trades product Oscorp

trades product DeathStar

book sell

book buy

save Obama GameStonk

binary Obama.bin GameStonk.bin

exit