Btc-e  
Fee’s and everything else goes out to 4 decimal places  
It is .002\*the number of X you are receiving  
EG. IF you are buying LTC your fee is .002\*#ofLTC you are buying  
EG. IF you are selling LTC to BTC your fee is .002\*# of BTC you are receiving  
Minimum fee is .0001  
It rounds up  
#######NEEDS TO BE WORKED OUT##########  
from math import ceil

Example of ['USD', 'LTC', ‘BTC’,’USD’]  
Starting\_money = 100$  
LAPL = Lowest ask price of LTC/USD  
VL = Amount of LTC I can buy at that price  
#Check to make sure that the amount I can buy is less than my starting money  
If(LAPL\*VL > Starting\_money):  
#RESTART IN 30 Seconds and check again  
HBPB = Highest bid price of BTC/LTC  
VB = Amount of LTC I can sell @ that price  
HBPU = Highest bid price of USD/BTC  
VU = Amount of BTC I CAN SELl at that price  
VU = VU\*(Lowest ask price of LTC/BTC) // I do this so that all the volume is in LTC  
MaxV = min(VL,VB,VU)

#Buy an amount of Litecoins that is equal to MaxV  
Cost = MaxV \* LAPL

#Caclualte Fee  
Fee = float(MaxV\*.002)  
Fee = ceil(fee\* 10000) / 10000.0  
if(fee<0.0001):  
fee = 0.001  
Amount of Litecoins I receive is AMTLITECOINS = MaxV - (fee)  
#Sell my litecoins into bitcoins  
Amount of bitcoins I receive is AMTBITCOIN = AMTLITECOINS \* HBPB   
#Caclualte Fee  
Fee = float(AMTBITCOIN\*.002)  
Fee = ceil(fee\* 10000) / 10000.0  
if(fee<0.0001):  
fee = 0.001  
AMTBITCION = AMTBITCION –(fee)  
#CONVERT MY BITCION into USD  
FINALUSD = AMTBITCOIN\*HBPU  
#Caclualte Fee  
Fee = float(FINALUSD\*.002)  
Fee = ceil(fee\* 10000) / 10000.0  
if(fee<0.0001):  
fee = 0.001  
FINALUSD = FINALUSD –(fee)

IF(finalusd > cost) : that means its profitable and I should execute

Starting money = 100$  
LAPL = 15.399  
VL = 59.1837  
HPBP = .02527 BTC  
VB = 1.122  
HBPU = 605.211  
VU = 0.155  
VU = 0.155\*.0252 = .00392  
MaxV = .00392

###########NEEDS TO BE WORKED OUT####################

Possible combinations for USD TO BTC

XXXXVALID\_PATH : ['USD', 'LTC', ‘BTC’,’USD’]

XXXXXXVALID\_PATH : ['USD', 'PPC', ‘BTC’,’USD’]

FITS STRAT 4 VALID\_PATH : ['USD', 'EUR', ‘BTC’,’USD’]

FITS STRATEGY 6 VALID\_PATH : ['USD', 'RUR', ‘BTC’,’USD’]

XXXXXXVALID\_PATH : ['USD', 'NVC', ‘BTC’,’USD’]

XXXXXXXXFITS STRATEGY TWO VALID\_PATH : ['USD', 'LTC', 'RUR', ‘BTC’,’USD’]

XXXXXXXXVALID\_PATH : ['USD', 'LTC', 'EUR', ‘BTC’,’USD’]

FITS STRAT 3VALID\_PATH : ['USD', 'EUR', 'LTC', ‘BTC’,’USD’]

FITTS STRAT 5 VALID\_PATH : ['USD', 'EUR', 'RUR', ‘BTC’,’USD’]

FITS STRATEGY 7 VALID\_PATH : ['USD', 'RUR', 'LTC', ‘BTC’,’USD’]

FITS STRATEGY 8 VALID\_PATH : ['USD', 'RUR', 'EUR', ‘BTC’,’USD’]

XXXXXXXXXXXFITS STRATEGY 9 VALID\_PATH : ['USD', 'LTC', 'RUR', 'EUR', ‘BTC’,’USD’]

FITS STRAT 10 VALID\_PATH : ['USD', 'LTC', 'EUR', 'RUR', ‘BTC’,’USD’]

FITS STRAT 11 VALID\_PATH : ['USD', 'EUR', 'LTC', 'RUR', ‘BTC’,’USD’]

FITS STRAT 12 VALID\_PATH : ['USD', 'EUR', 'RUR', 'LTC', ‘BTC’,’USD’]

FITS STRAT 13 VALID\_PATH : ['USD', 'RUR', 'LTC', 'EUR', ‘BTC’,’USD’]

FISTS STRAT 14 VALID\_PATH : ['USD', 'RUR', 'EUR', 'LTC', ‘BTC’,’USD’]

Possible combinations for USD TO LTC

FITS STRAT 4 VALID\_PATH : ['USD', 'BTC', ‘LTC’,’USD’]

FITS STRAT 4 VALID\_PATH : ['USD', 'EUR', ‘LTC’,’USD’]

FIRST STRAT 6 VALID\_PATH : ['USD', 'RUR', ‘LTC’,’USD’]

XXXXXXXXXXXXFITS STRAT 2 VALID\_PATH : ['USD', 'BTC', 'RUR', ‘LTC’,’USD’]

XXXXXXFits strat 2 VALID\_PATH : ['USD', 'BTC', 'EUR', ‘LTC’,’USD’]

XXXXXXXXFits strat 2VALID\_PATH : ['USD', 'PPC', 'BTC', ‘LTC’,’USD’]

FITS STRAT 15 VALID\_PATH : ['USD', 'EUR', 'BTC', ‘LTC’,’USD’]

XXXXXXXXXXXFITS STRAT 2 VALID\_PATH : ['USD', 'EUR', 'RUR', ‘LTC’,’USD’]

FITS STRAT 8 VALID\_PATH : ['USD', 'RUR', 'BTC', ‘LTC’,’USD’]

FITS STRAT 8 VALID\_PATH : ['USD', 'RUR', 'EUR', ‘LTC’,’USD’]

XXXXXXXXXXFits strat 2VALID\_PATH : ['USD', 'NVC', 'BTC', ‘LTC’,’USD’]

XXXXXXXFITS STRAT 9 VALID\_PATH : ['USD', 'BTC', 'RUR', 'EUR', ‘LTC’,’USD’]

FITS STRAT 10 VALID\_PATH : ['USD', 'BTC', 'EUR', 'RUR', ‘LTC’,’USD’]

FITS STRAT 10 VALID\_PATH : ['USD', 'PPC', 'BTC', 'RUR', ‘LTC’,’USD’]

FITS STRAT 10 VALID\_PATH : ['USD', 'PPC', 'BTC', 'EUR', ‘LTC’,’USD’]

FITS STRAT 11 VALID\_PATH : ['USD', 'EUR', 'BTC', 'RUR', ‘LTC’,’USD’]

XXXXXXXXXXFITS STRAT 9 VALID\_PATH : ['USD', 'EUR', 'RUR', 'BTC', ‘LTC’,’USD’]

FITS STRAT 13 VALID\_PATH : ['USD', 'RUR', 'BTC', 'EUR', ‘LTC’,’USD’]

14 VALID\_PATH : ['USD', 'RUR', 'EUR', 'BTC', ‘LTC’,’USD’]

10 VALID\_PATH : ['USD', 'NVC', 'BTC', 'RUR', ‘LTC’,’USD’]

10 VALID\_PATH : ['USD', 'NVC', 'BTC', 'EUR', ‘LTC’,’USD’]

16 VALID\_PATH : ['USD', 'PPC', 'BTC', 'RUR', 'EUR', ‘LTC’,’USD’]

17VALID\_PATH : ['USD', 'PPC', 'BTC', 'EUR', 'RUR', ‘LTC’,’USD’]

VALID\_PATH : ['USD', 'NVC', 'BTC', 'RUR', 'EUR', ‘LTC’,’USD’]

VALID\_PATH : ['USD', 'NVC', 'BTC', 'EUR', 'RUR', ‘LTC’,’USD’]

Possible combinations for USD TO PPC

XXXXXXXXVALID\_PATH : ['USD', 'BTC', ‘PPC’,’USD’]

XXXXXXXXXXXXXXFits strat 2 VALID\_PATH : ['USD', 'LTC', 'BTC', ‘PPC’,’USD’]

15 VALID\_PATH : ['USD', 'EUR', 'BTC', ‘PPC’,’USD’]

7 VALID\_PATH : ['USD', 'RUR', 'BTC', ‘PPC’,’USD’]

XXXXXXXXXFitts strat 2VALID\_PATH : ['USD', 'NVC', 'BTC', ‘PPC’,’USD’]

XXXXXXXXXXX9 VALID\_PATH : ['USD', 'LTC', 'RUR', 'BTC', ‘PPC’,’USD’]

XXXXXXXXX9 VALID\_PATH : ['USD', 'LTC', 'EUR', 'BTC', ‘PPC’,’USD’]

11 VALID\_PATH : ['USD', 'EUR', 'LTC', 'BTC', ‘PPC’,’USD’]

XXXXXXXXXX9 VALID\_PATH : ['USD', 'EUR', 'RUR', 'BTC', ‘PPC’,’USD’]

13 VALID\_PATH : ['USD', 'RUR', 'LTC', 'BTC', ‘PPC’,’USD’]

14 VALID\_PATH : ['USD', 'RUR', 'EUR', 'BTC', ‘PPC’,’USD’]

VALID\_PATH : ['USD', 'LTC', 'RUR', 'EUR', 'BTC', ‘PPC’,’USD’]

16VALID\_PATH : ['USD', 'LTC', 'EUR', 'RUR', 'BTC', ‘PPC’,’USD’]

VALID\_PATH : ['USD', 'EUR', 'LTC', 'RUR', 'BTC', ‘PPC’,’USD’]

VALID\_PATH : ['USD', 'EUR', 'RUR', 'LTC', 'BTC', ‘PPC’,’USD’]

VALID\_PATH : ['USD', 'RUR', 'LTC', 'EUR', 'BTC', ‘PPC’,’USD’]

VALID\_PATH : ['USD', 'RUR', 'EUR', 'LTC', 'BTC', ‘PPC’,’USD’]

Possible combinations for USD TO EUR  
XXXXXVALID\_PATH : ['USD', 'BTC', ‘EUR’,’USD’]

XXXXVALID\_PATH : ['USD', 'LTC', ‘EUR’,’USD’]

6 VALID\_PATH : ['USD', 'RUR', ‘EUR’,’USD’]

XXXXXXXXXXXX2 VALID\_PATH : ['USD', 'BTC', 'RUR', ‘EUR’,’USD’]

3 VALID\_PATH : ['USD', 'BTC', 'LTC', ‘EUR’,’USD’]

VALID\_PATH : ['USD', 'LTC', 'BTC', ‘EUR’,’USD’]

Xxxxxxxxxxxxxx 2 VALID\_PATH : ['USD', 'LTC', 'RUR', ‘EUR’,’USD’]

VALID\_PATH : ['USD', 'PPC', 'BTC', ‘EUR’,’USD’]

VALID\_PATH : ['USD', 'RUR', 'BTC', ‘EUR’,’USD’]

VALID\_PATH : ['USD', 'RUR', 'LTC', ‘EUR’,’USD’]

VALID\_PATH : ['USD', 'NVC', 'BTC', ‘EUR’,’USD’]

VALID\_PATH : ['USD', 'BTC', 'RUR', 'LTC', ‘EUR’,’USD’]

VALID\_PATH : ['USD', 'BTC', 'LTC', 'RUR', ‘EUR’,’USD’]

VALID\_PATH : ['USD', 'LTC', 'BTC', 'RUR', ‘EUR’,’USD’]

VALID\_PATH : ['USD', 'LTC', 'RUR', 'BTC', ‘EUR’,’USD’]

VALID\_PATH : ['USD', 'PPC', 'BTC', 'RUR', ‘EUR’,’USD’]

VALID\_PATH : ['USD', 'PPC', 'BTC', 'LTC', ‘EUR’,’USD’]

VALID\_PATH : ['USD', 'RUR', 'BTC', 'LTC', ‘EUR’,’USD’]

VALID\_PATH : ['USD', 'RUR', 'LTC', 'BTC', ‘EUR’,’USD’]

VALID\_PATH : ['USD', 'NVC', 'BTC', 'RUR', ‘EUR’,’USD’]

VALID\_PATH : ['USD', 'NVC', 'BTC', 'LTC', ‘EUR’,’USD’]

VALID\_PATH : ['USD', 'PPC', 'BTC', 'RUR', 'LTC', ‘EUR’,’USD’]

VALID\_PATH : ['USD', 'PPC', 'BTC', 'LTC', 'RUR', ‘EUR’,’USD’]

VALID\_PATH : ['USD', 'NVC', 'BTC', 'RUR', 'LTC', ‘EUR’,’USD’]

VALID\_PATH : ['USD', 'NVC', 'BTC', 'LTC', 'RUR', ‘EUR’,’USD’]

Possible combinations for USD TO RUR

VALID\_PATH : ['USD', 'BTC', ‘RUR’,’USD’]

VALID\_PATH : ['USD', 'LTC', ‘RUR’,’USD’]

VALID\_PATH : ['USD', 'EUR', ‘RUR’,’USD’]

VALID\_PATH : ['USD', 'BTC', 'EUR', ‘RUR’,’USD’]

VALID\_PATH : ['USD', 'BTC', 'LTC', ‘RUR’,’USD’]

VALID\_PATH : ['USD', 'LTC', 'BTC', ‘RUR’,’USD’]

VALID\_PATH : ['USD', 'LTC', 'EUR', ‘RUR’,’USD’]

VALID\_PATH : ['USD', 'PPC', 'BTC', ‘RUR’,’USD’]

VALID\_PATH : ['USD', 'EUR', 'BTC', ‘RUR’,’USD’]

VALID\_PATH : ['USD', 'EUR', 'LTC', ‘RUR’,’USD’]

VALID\_PATH : ['USD', 'NVC', 'BTC', ‘RUR’,’USD’]

VALID\_PATH : ['USD', 'BTC', 'EUR', 'LTC', ‘RUR’,’USD’]

VALID\_PATH : ['USD', 'BTC', 'LTC', 'EUR', ‘RUR’,’USD’]

VALID\_PATH : ['USD', 'LTC', 'BTC', 'EUR', ‘RUR’,’USD’]

VALID\_PATH : ['USD', 'LTC', 'EUR', 'BTC', ‘RUR’,’USD’]

VALID\_PATH : ['USD', 'PPC', 'BTC', 'EUR', ‘RUR’,’USD’]

VALID\_PATH : ['USD', 'PPC', 'BTC', 'LTC', ‘RUR’,’USD’]

VALID\_PATH : ['USD', 'EUR', 'BTC', 'LTC', ‘RUR’,’USD’]

VALID\_PATH : ['USD', 'EUR', 'LTC', 'BTC', ‘RUR’,’USD’]

VALID\_PATH : ['USD', 'NVC', 'BTC', 'EUR', ‘RUR’,’USD’]

VALID\_PATH : ['USD', 'NVC', 'BTC', 'LTC', ‘RUR’,’USD’]

VALID\_PATH : ['USD', 'PPC', 'BTC', 'EUR', 'LTC', ‘RUR’,’USD’]

VALID\_PATH : ['USD', 'PPC', 'BTC', 'LTC', 'EUR', ‘RUR’,’USD’]

VALID\_PATH : ['USD', 'NVC', 'BTC', 'EUR', 'LTC', ‘RUR’,’USD’]

VALID\_PATH : ['USD', 'NVC', 'BTC', 'LTC', 'EUR', ‘RUR’,’USD’]

Possible combinations for USD TO NVC

4 VALID\_PATH : ['USD', 'BTC', ‘NVC’,’USD’]

XXXXXXXXXFits strat 2 VALID\_PATH : ['USD', 'LTC', 'BTC', ‘NVC’,’USD’]

XXXXXXXFits strat 2VALID\_PATH : ['USD', 'PPC', 'BTC', ‘NVC’,’USD’]

VALID\_PATH : ['USD', 'EUR', 'BTC', ‘NVC’,’USD’]

VALID\_PATH : ['USD', 'RUR', 'BTC', ‘NVC’,’USD’]

XXXXXXXXXXXXFits strat 9 VALID\_PATH : ['USD', 'LTC', 'RUR', 'BTC', ‘NVC’,’USD’]

XXXXXXXXXXXX FITS STRAT 9 VALID\_PATH : ['USD', 'LTC', 'EUR', 'BTC', ‘NVC’,’USD’]

VALID\_PATH : ['USD', 'EUR', 'LTC', 'BTC', ‘NVC’,’USD’]

VALID\_PATH : ['USD', 'EUR', 'RUR', 'BTC', ‘NVC’,’USD’]

VALID\_PATH : ['USD', 'RUR', 'LTC', 'BTC', ‘NVC’,’USD’]

VALID\_PATH : ['USD', 'RUR', 'EUR', 'BTC', ‘NVC’,’USD’]

VALID\_PATH : ['USD', 'LTC', 'RUR', 'EUR', 'BTC', ‘NVC’,’USD’]

VALID\_PATH : ['USD', 'LTC', 'EUR', 'RUR', 'BTC', ‘NVC’,’USD’]

VALID\_PATH : ['USD', 'EUR', 'LTC', 'RUR', 'BTC', ‘NVC’,’USD’]

VALID\_PATH : ['USD', 'EUR', 'RUR', 'LTC', 'BTC', ‘NVC’,’USD’]

VALID\_PATH : ['USD', 'RUR', 'LTC', 'EUR', 'BTC', ‘NVC’,’USD’]

VALID\_PATH : ['USD', 'RUR', 'EUR', 'LTC', 'BTC', ‘NVC’,’USD’]

strategyonethree():

# VALID\_PATH : ['USD', 'LTC', ‘EUR’,’USD’]

print("Starting strat 1-3")

#this only works if first/usd and second/usd and first/second is possible

def strategyfour():

#VALID\_PATH : ['USD', 'EUR', ‘BTC’,’USD’]

#fits first/usd, second/first, second/ usd

def strategysix():

print("SHIT")

#VALID\_PATH : ['USD', 'RUR', ‘BTC’,’USD’]

#usd/first,second/first, second/usd

def strategythree():

print(shit)

#VALID\_PATH : ['USD', 'EUR', 'LTC', ‘BTC’,’USD’]

#fits first/usd, second/first, second/third, third/usd

def strategyfifteen():

print("SHIT")

# VALID\_PATH : ['USD', 'EUR', 'BTC', ‘LTC’,’USD’]

#first/usd, second/first, third/second, third/usd

def strategytwo():

#VALID\_PATH : ['USD', 'LTC', 'BTC', ‘NVC’, ’USD’]

#has to be first/usd, first/second, third/second, third/usd

def strategyfive():

print("shit")

#VALID\_PATH : ['USD', 'EUR', 'RUR', ‘BTC’,’USD’]

#fits first/usd, first/second, third/second, third/usd

def strategyseven():

print("SHIT")

#VALID\_PATH : ['USD', 'RUR', 'LTC', ‘BTC’,’USD’]

#usd/first, second/first,second/third,third/usd

def strategyeight():

print("SHIT")

#VALID\_PATH : ['USD', 'RUR', 'EUR', ‘BTC’,’USD’]

#usd/first, second/first, third/second, third/usd

def strategynine():

print("SHIT")

#VALID\_PATH : ['USD', 'LTC', 'RUR', 'EUR', ‘BTC’,’USD’]

#first/usd, first/second,third/second,fourth/third,fourth/usd

def strategyten():

print("SHIT")

#VALID\_PATH : ['USD', 'LTC', 'EUR', 'RUR', ‘BTC’,’USD’]

#first/usd, first/second, second/third, fourth/third, fourth/usd\

def strategytweleve():

print("SHIT")

#VALID\_PATH : ['USD', 'EUR', 'RUR', 'LTC', ‘BTC’,’USD’]

#first/usd, first/second, third/second,third/fourth, fourth/usd

def strategyeleven():

print("SHIT")

#VALID\_PATH : ['USD', 'EUR', 'LTC', 'RUR', ‘BTC’,’USD’]

#first/usd, second/first,second/third, fourth/third, fourth/usd

def strategythirteen():

print("SHIT")

# VALID\_PATH : ['USD', 'RUR', 'LTC', 'EUR', ‘BTC’,’USD’]

#usd/first, second/first, second/third, fourth/third, fourth/usd

def strategyfourteen():

print("SHIT")

#VALID\_PATH : ['USD', 'RUR', 'EUR', 'LTC', ‘BTC’,’USD’]

#usd/first, second/first, third/second, third/fourth, fourth/usd

def strategysixteen():

print("SHIT")

#VALID\_PATH : ['USD', 'PPC', 'BTC', 'RUR', 'EUR', ‘LTC’,’USD’]

#first/usd, first/second, second/thrid, fourth/third, fifth/fourth, fifth/usd

def strategysevteen():

print("SHIT")

#VALID\_PATH : ['USD', 'PPC', 'BTC', 'EUR', 'RUR', ‘LTC’,’USD’]

#first/usd, first/second, second/third, third/fourth, fifth/fourth, fifth/usd