1. I use Ridge regression for prediction. Ridge Regression has an advantage over ordinary linear regression in the problem of multicollinearity. For example I make regression on a parameters and this parameters have a strong correlation, so ordinary lineal regression ignores this problem, but Ridge regression considers.

Ridge regression:

1. I use the data for my model:
   1. Moment of time
   2. Best Buy Price
   3. Best Sell Price
   4. Quantity available on Best Buy Price
   5. Quantity available on Best Sell Price
   6. Quantity available for 2nd Best Buy Price
   7. Quantity available for 3rd Best Buy Price
   8. Quantity available for 4th Best Buy Price
   9. Quantity available for 5th Best Buy Price
   10. Quantity available for 2nd Best Sell Price
   11. Quantity available for 3rd Best Sell Price
   12. Quantity available for 4th Best Sell Price
   13. Quantity available for 5th Best Sell Price
2. I use **lot** in my program. **lot** this is the number of shares which we buy/sell simultaneously only if this is possible.
   1. So, I buy if **lot**<= Quantity available on Best Sell Price(Best ASK Volume)
   2. I sell if **lot**<= Quantity available on Best Buy Price(Best BID Volume)
3. So I trade **lot** every time when it possible and indicators BUY or SELL equal 1 (see code) and also Position<Maxposition (in case BUY) or Position>Minposition (in case SELL).
4. I make regression **Average price(i+1)- Average price(i)** on:
   1. Trend Indicator1 (see python code)
   2. Trend Indicator2 (see python code)
   3. Trend Indicator3 (see python code)
   4. Trend Indicator4 (see python code)
   5. Trend Indicator5 (see python code)
   6. Book Indicator1 (see python code)
   7. Book Indicator2 (see python code)
5. I don’t change the code for every date. You can apply this code to the DATA: DATA\_strategy-16may, DATA\_strategy-17may, DATA\_strategy-18may, DATA\_strategy-19may. Т.е.**один** **код должен давать положительные результаты для всех 4 файлов Excel.**
6. В коде программы не надо трогать: «calculating Position», «calculating PNL» - это проверенные вещи.