Task1 Based on Easy Trading Rules

Steps

1.Download data from Tushare

* pyy’s token: 00d803b166f55fc30c178d74c158985136010d6bd19271b182059eef
* Data: daily, from 2016 til now, choose one stock
  + HK.(date, close, open)
  + A.(date, close, open)
  + 人民币/港币 Exchange Rate

2.Process data

* Convert 港币 into 人民币;
* Calculate 折价率discount\_rate = (HK.close - A.close)/A.close;
* Prepared data:
  + HK.(date, close, open,discount\_rate)

3.Analyze discount\_rate

* DR(mean, std, variance)
  + time period: past year

4.Trading rules design

* if HK\_t.close < DR\_t.mean - DR\_t.std
  + then we all in at t+1 at price HK\_t+1.open
* else if HK\_t.close > DR\_t.mean + DR\_t.std
  + then we all out at t+1 at price HK\_t+1.open
* else
  + do nothing

5.Evaluation

* Calculate cumulative rate of return
* convert to Annualized rate of return
* Draw the timing diagram of the result