The algorithm compare 255 days data of the market (sp500 index) with each stock, and count the number of days of following 6 situations:

1. sp up, stock up faster; AAPL 1 Bull Ratio = 1/(1+2+3)
2. sp up, stock up slower AAPL 2 = 2/(1+2+3)
3. sp up, stock down: AAPL 3 Lag Ratio = 3/(1+2+3)
4. sp down, stock down faster; AAPL 4 Bear Ratio = 4/(4+5+6)
5. sp down, stock down slower;AAPL 5 = 5/(4+5+6)
6. sp down, stock up;AAPL 6 Solid Ratio = 6/(4+5+6)

Hbase: apache, concepts

Output:

A 70 37 33 60 21 34

AA 70 23 47 65 8 42

……

Mapper

S&P price data

Company historical data

StockTag1 price price price … price

StockTag2 price price price … price

……

StockTagn price price price … price

Hive:book

Zoo keeper concepts

Automatic computing : four behaviors

Examples can be found.

MVM CVM know it

Cloud concepts

Ooze

Spark