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management

Workshop: Finding Objects, then classes, then model

Problem

We need a system that compares analysts from records of the analyst's own stock buy/sell transactions, so we can recommend investors to invest with the best analyst. To understand what the program needs to do, it is first necessary to understand a little bit about the stocks, buy and sell transactions, and their records. We'll keep things simple, though, and only deal with basic stocks purchases and sales.

Overview

In the domain of financial investment, individual investors may base buy/sell decisions on the opinions of investment analysts, who spend considerable time studying the fundamentals and potential of selected companies. When an investor relies on an analyst's recommendations to any degree, then that investor typically wants know something about the analyst's track record.

Background

Think of a share of stock as a piece of a company, albeit typically a very small piece. The value of a share is loosely related to the value of the company divide by the number of outstanding shares (i.e., total shares owned by shareholders.) For example, if a company was worth \$10M and there was a total of 1M shares owned by shareholders, then each share would be worth \$10.

In a stock market, all companies and their stock are identified by symbols, which are short character strings. For example, Amazon's symbol is AMZN, Apple's is AAPL, and Microsoft's is MSFT.

An investor will buy some number of shares at a specific purchase price and pay a small fee to a broker to complete that transaction. Then, at late time, the investor will sell all or some of those shares at a makes price and pay another small fee to a broker. Obviously, if an investor sells at a price higher than the purchase price (adjusting for the fees), the investor will make money. For example, if an investor buy 10 shares of ANEN at \$800/share for a \$10 fee, then sell those 10 shares at \$850/share for \$10 fee, that investor will make a profit of \$480