cis112-2025-1-e2Midterm2-Q1-g2: FIFO Stock

v2025-04-27

- cis112-2025-1-e2Midterm2-Q1-g2: FIFO Stock
 - Introduction
 - o ToDo
 - D0. Common material
 - D1. Stock

Introduction

Consider an inventory of some item, such as shares in stock exchange or apples.

- One buys different amounts at different prices at differet times.
- Similarly, one sells different amounts at different prices at differet times.
- The total gain is the profit/lost obtained at a given time.

There are many ways to calculate total gain. One of them is **FIFO**. Assume that the system is using *FIFO*. That is, one sells the oldest item first.

Example

- 1. Buy 4 items at a price of \$5. Stock: 4 @\$5. TotalGain = \$0.
- 2. Sell 3 items at a price of \$7. Stock: 1 @\$5. TotalGain = 0 + 3 (7 5) = \$6.
- 3. Buy 10 items at a price of \$6. Stock: 1 @\$5 + 10 @\$6. TotalGain = \$6.
- 4. Sell 3 items at a price of \$8. Stock: 8 @\$6. Total gain = 6 + 1 (8 5) + 2 (8 6) = 13.

ToDo

D0. Common material

Consider cis000_common package.

- 1. Update StudentInfo with your info.
- 2. Read ExamInLab-forStudents.pdf carefully.

D1. Stock

- 1. Complete StockFIFO.
- 2. You can use StockFIF0_Test during your development.
- 3. Evaluate your code with StockFIF0_jUnit.

Warning. Do not change StockFIF0_jUnit.