LiftPal: CS313 Final

Seth Engvall and Anthony Zhang

Purpose

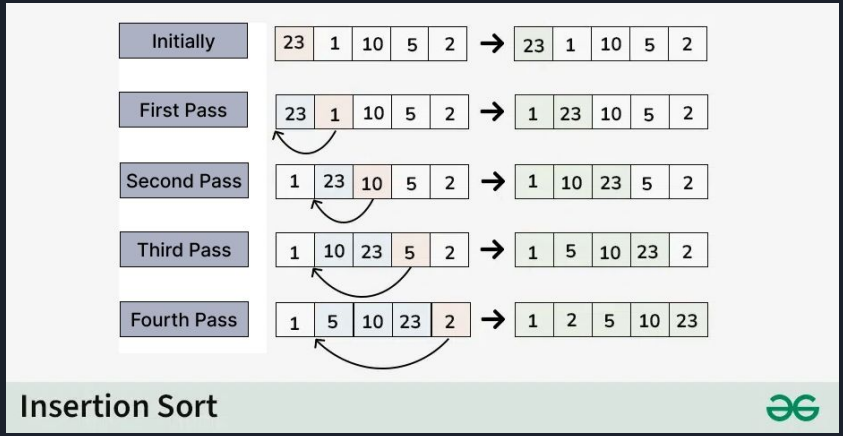
- PE teachers, University trainers, 24 hr fitness trainers, casual gym members, professionals, students, faculty members
- Workout assistant app to track and progress lifts

Features

- Create workout schedules
- Track and update max lifts
- Which types of lifts (leg, arms, back…) need improvement

Requirements

- The two data types used were dictionary and a linked list
  - Circular
- Sorting algorithm: insertion sort
  - Previously used in the list_lifts
    - TA said not a practical enough use
  - Now used as well in find_fault
    - Reverse



General Design

- General design based off of a menu system
  - Ex: Vending machine assignment
- Within menu, there are 7 options that run different methods
  - Including an 8th exit option
- Creates a liftPal object to run each method
  - And save their results
- Clear class, method, and variable names (modular design)

DEMO

Future Improvements

- Adding proper GUI
- Login account to save progress and ensure information is safe
- Graphs to show progress over time, whether it is increasing or decreasing
    - Linear, exponential, quadratic, what's best fit, how fast are you progressing