Dorodark / wsu

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CS5050 Assignment 4

To run

Developed and tested in Mac OSX

Install cmake and make , pull this repo change to this directory, run:

cmake . to create Makefile

make to comple

Q1

Using stacks, write a non-recursive function solveTowers() to solve the towers of Hanoi problem. Furthermore, implement a driver file to test your code. (2 points)

• src/q1.cpp - driver and implementation

Results

- 2 and 3 disks
 - Start
 - Destination stack print:
- 10 disks
 - Start iteration over 10
 - Destination stack print:

I have also implemented a recursive way with printing of state:. The printing can be seen here:

- 2 and 3 disk
- 10 disks

Q2

- Q2 src/q2.cpp driver
- Results: q2.out

Write an array-based implementation of the ADT list that expands the size of the array of list entries as needed so that the list can always accommodate a new entry. (2 points)

- The include/ArrayList.h defines behaviour
- The include/ArrayList.cpp provides implementation

The expand is implementated here: include/ArrayList.cpp and used during

- insert include/ArrayList.cpp
- setEntry include/ArrayList.cpp

Q3

The popular social network Facebook was founded by Mark Zuckerberg and his classmates at Harvard University in 2004. At the time, he was a sophomore studying computer science.

Design and implement an application that maintains the data for a simple social network.

- The implentation is provided as library, no UI provided.
- All testing is done from the driver: src/q3.cpp.
 - See output q3.out

Each person in the network should have a profile that contains the person's name, optional image, current status, and a list of friends.

The profile can be created without joining:

- The include/Profile.h defines behaviour
- The include/Profile.cpp provides implementation

The Member encapsulates the Profile and the list of friends

- The include/TFBMember.h defines behaviour
- The include/TFBMember.cpp provides implementation

Your application should allow a user to join the network, leave the network, create a profile, modify the profile, search for other profiles, and add friends. (6 points)

- Interface include/TheFaceBooks.h provide encapsulation of data and the public interface for:
 - createProfile include/TheFaceBooks.cpp
 - deleteProfile include/TheFaceBooks.cpp
 - joinTFB include/TheFaceBooks.cpp
 - search include/TheFaceBooks.cpp
 - leaveTFB include/TheFaceBooks.cpp
 - beFriend include/TheFaceBooks.cpp
 - unFriend include/TheFaceBooks.cpp