

CS 2412 assignment 2

Due on Wednesday, Oct 15, 2014

Each student is required to do this assignment **individually** and to hand in the following:

- All the documents of the solved problems, including your statements, input and output data etc. You may include any materials shown your work on this assignment.
- Send your computer programs to `cs2412@peace.lakeheadu.ca`.

Staple your answer sheets together and include the following information clearly Name, Student Number, Assignment Number, Course Number (CS 2412)

The score of the assignment will depend on:

- Format, readability and documentation: 25 %
- Correctness: 75 %

Deposit (submit) your answer set in Classroom on due date.

Note: you need to develop good quality programs, not just solve the problem correctly. You need to write and compile different functions separately, make your own header file and maybe makefile if you use gcc, give enough comments in your source codes, etc.

Problem 1.

Write an function `catQueue` that concatenates two queues together. The second queue should be put at the end of the first queue. Then write a `main` program to test your function. (To do that you should implement queue program.)

Problem 2.

Complete Projects 26 and 27 on textbook pages 253-254. (hint: you may use some of programs in the textbook. If you use the ADT definitions and functions from the textbook, you might define `scoreNode` and cast `dataPtr` as pointer of `scoreNODE`:

```
typedef struct scoreNode
{
    int count;
    int score; //or use float
    struct scoreNode* link;
} scoreNODE;
```