CIS*2750
Assignment 1
Deadline: Tuesday, February 1, 9:00am
Weight: 25%

Assignment structure and submission details

We are using Git, hosted on the SoCS GitLab server: gitlab.socs.uoguelph.ca for assignment submissions. All of you will have repos created there (if you haven't already). All Winter 2022 CIS*2750 projects belong to the group 2750W22. The instructional team has access to all projects in this group.

The project name for everyone is CIS2750W22_Project. Your repo and the project are private. **Do not** change the project access level - this may lead to Academic Misconduct.

Each assignment must be submitted into a separate branch - A1 for Assignment 1, A2 for assignment 2, etc.. This will allow the instructional team to grade your submissions without encountering breaking changes. For example, if you temporarily break some A1 functionality while working on A2, grading won't be affected - A2 and A1 are in separate branches, and we will pull A1 from your repo.

Submission Structure

The submission must have the following directory structure.

`cis2750w22_project/`	- contains the `Makefile`, which has been provided for you.
`cis2750w22_project/bin`	- should be empty (other than a `.gitignore` file), but this is where the `Makefile` will place the shared library file.
`cis2750w22_project/src`	- contains `SVGParser.c`, LinkedListAPI.c, and your additional source files.
`cis2750w22_project/include`	- contains `SVGParser.h`, `LinkedListAPI.h`, and your additional headers.

A stub with this structure has been checked into the trunk of your `CIS2750W22_project` repo. You will need to branch your project, place A1 code into the A1 branch in your repo, and work on the code in the A1 branch.

Reminders:
- Use the SVG prefix for all `.c` and `.h` files that you wan to include in your graded A1
- **Do not** put the `main()` function into any of the files with the SVG prefix. I recommend you use a descriptive name for your `.c` file with main, e.g. `mainTester.c`

Makefile

A `Makefile` has been provided for you the following primary functionality:
- `make parser` creates a shared library `libsvgparser.so` in `bin/`
- `make` creates a shared library `libSVGparser.so` in `bin/`
- `make clean` removes all `.o` and `.so` files from `bin/`

As long as you follow the prescribed naming convention, the Makefile will compile all the source for the parser shared library correctly when you type make parser.

Note that the Makefile will have a number of additional targets. <u>You must not modify any of the existing targets in any way</u>. This Makefile is identical to the one that will be used to grade you. If your code does not compile with this makefile, your assignment grade will be **zero** (0).

You can add additional targets - e.g. to compile your main. However, make sure you don't mess up the existing targets. An "reference" copy of this Makefile will be provided for you in the A1 folder, so you can always double check your Makefile and make sure it works.

Submission details and grading

You must commit and push your code into the A1 branch of your CIS2750W22_Project project on gitlab.socs.uoguelph.ca by the specified date. **No other submissions will be accepted.**

Remember to commit and push your assignment code on a regular basis. The SoCS GitLab server will be your backup, and the version control will be helpful - for example, you can roll back to an earlier commit if you mess up your code and can't fix it.

If no code has been submitted to the A1 branch of your CIS2750W22_Project repo prior to the end of the grace period, your assignment will be considered **not submitted** and will receive the grade of zero.

Late penalty calculation:
- If the last commit to the A1 branch was prior to the assignment deadline, no late penalty will be applied
- Otherwise, the late penalty will be calculated based on the timestamp of the last commit to the A1 branch during the grace period at 2% per hour, rounded up to the nearest hour. For example, if the last A1 commit is at 10:25am, the late penalty will be 4%.
- If there are no commits to the A1 branch prior to the end of the grace period, your assignment will be considered **not submitted** and will receive the grade of zero.

    As stated in the course outline, the grace period is 12 hours, so it will end on Tuesday, February 1, 9:00pm

You will lose marks if your git repo does not contain the A1 branch. Use a .gitignore files to ensure that only the source code and required files are committed to your repository (defaults are provided for you).