

COMP9024 Assignment 4

This is the README of COMP9024 Assignment 4

This assignment use a diagram to represent a bus network and implment following functions for the bus network:

```
int StronglyConnectivity(...);
void maximalStronlyComponents(...);
void reachableStops(...);
void TravelRoute(...);
```

Implementation of the above functions can be found in MyGraph.c

How to compile and run

This assignment contains several source files written in C so it is necessary to use Makefile to compile the program, main function is located in test_ass4.c.

Compilation

Run this command at terminal to compile :

```
make test_ass4
```

If compilation is successful, at terminal you will see:

```
gcc -Wall -Werror -O -c test_ass4.c
gcc -Wall -Werror -O -c MyGraph.c
gcc -Wall -Werror -O -c MyBinomialHeaps.c
gcc -Wall -Werror -O -c MyList.c
gcc -o test_ass4 test_ass4.o MyGraph.o MyBinomialHeaps.o MyList.o
```

If compilation is already done before you run **make**, then at terminal you will see:

```
make: `test_ass4` is up to date.
```

Execution

If compilation is successful, run this command to execute test_ass4 :

```
./test_ass4
```

After this command is run, marker can verify the results printed at terminal.

Clean

Run this command to clean objective files generated by **make** :

```
make clean
```

If clean is successful, at terminal you will see:

```
rm test_ass4 test_ass4.o MyGraph.o MyBinomialHeaps.o MyList.o
```

If you run **make clean** but there is nothing to clean, at terminal you will see:

```
rm test_ass4 test_ass4.o MyGraph.o MyBinomialHeaps.o MyList.o
rm: test_ass4: No such file or directory
rm: test_ass4.o: No such file or directory
rm: MyGraph.o: No such file or directory
rm: MyBinomialHeaps.o: No such file or directory
rm: MyList.o: No such file or directory
make: *** [clean] Error 1
```

Platform

This assignment is developed on macOS Mojave