

# COMP5112 - Assignment 2

## Package list

- `pthread_dijkstra_skeleton.cpp`: code skeleton for assignment 2
- `serial_dijkstra.cpp`: a serial version of dijkstra algorithm (just for your reference)
- two sets of sample input/output files
- `README.pdf`: the readme file

## Compile and run:

### serial\_dijkstra

Compile:

```
$ g++ -std=c++11 -o serial_dijkstra serial_dijkstra.cpp
```

Run:

```
$ ./serial_dijkstra <input file>
```

e.g. `./serial_dijkstra input1.txt`

The output is in the file `output.txt`

### pthread\_dijkstra\_skeleton

Compile:

```
$ g++ -std=c++11 -lpthread -o pthread_dijkstra pthread_dijkstra_skeleton.cpp
```

Run:

```
$ pthread_dijkstra -n <number of threads> -i <input file>
```

e.g. `./pthread_dijkstra -n 4 -i input1.txt`

The output file is `output.txt`