Requirement

- cmake >= VERSION 3.16)
- c++ 14

Usage

Cause I use linux, there are two way to choose:

CLion

- · click the run button
- · input the file name in the running interface

Here is the optional file:

```
../ass2_sample_input
../custom_input
```

```
ASST **Communication

| Part | Communication | Part | Part
```

Terminal

```
▲ ~/Desktop/ASS2 g++ main.cpp
▲ ~/Desktop/ASS2 ./a.out
please input the file:
ass2_sample_input
======The first strategy=======
Make the first simulation, 10 servers and 1 queue in total.
The total number of served people is: 1000
The total service time is: 30558.4
The average service time is: 159.108
The average time a customer spend in queue is: 0.15425
The max time a customer spend in queue is: 39.693
The average length of queue in any give seconds is: 0.00504771
The max queue length is: 2
The total idle time for each server is:
The idle for server 4 is: 13628.8
The idle for server 9 is: 14064.3
The idle for server 2 is: 15031.8
The idle for server 6 is: 12584.9
The idle for server 3 is: 16847.5
The idle for server 7 is: 13820.9
The idle for server 10 is: 18050.1
The idle for server 8 is: 13155.7
The idle for server 5 is: 15203.5
The idle for server 1 is: 14088.2
=======The second strategy=====<u>====</u>
Make the second simulation, 10 servers and 10 queue in total.
The total number of served people is: 1000
The total service time is: 30558.4
The average service time is: 159.108
The average time a customer spend in queue is: 0.698013
The max time a customer spend in queue is: 158.275
The average length of queue in any give seconds is: 0.0228419
The max queue length is: 1
The multi queue length in total is: 2
The total idle time for each server is:
The idle for server 7 is: 14155.6
The idle for server 3 is: 13742.4
```

```
The idle for server 8 is: 14206.2
The idle for server 2 is: 15117.5
The idle for server 5 is: 16577.9
The idle for server 9 is: 14648
The idle for server 4 is: 13371.2
The idle for server 6 is: 13090.4
The idle for server 1 is: 14582
```