

# Refactoring of Assignment16

## 1 A routine has a poor name.

customerArrivalRateToInt() was changed to `customerArrivalRatePerSecond()`.  
findMinTWT(vector<handler> vh1) was changed to `shortestHandler((vector<handler> vh1)`.

## 2 Data members are public

```
class handler {  
public:  
    queue<customer> myqueue;  
    int currentTotalWaitTime;  
    handler() ;  
};
```

Data members were changed to private, and public functions were added:

```
class handler {  
private:  
    queue<customer> myqueue;  
    int currentTotalWaitTime;  
public:  
    handler() ;  
    queue<customer> getMyqueue ();  
    void addToMyqueue(customer input);  
    void popOfMyqueue();  
    void setBeginTime(int input);  
    int getTotalWaitTime ();  
    void setTotalWaitTime (int input);  
};
```

## 3 Codes are not necessary.

Wrong initialization of vector:

```
vector<handler> handlers;  
int numberOfHandler = 6;  
for (int i=0 ;i < numberOfHandler; ++i ) {  
    handler handlerTemp;  
    handlers.push_back(handlerTemp);  
}
```

changed to two line code:

```
int numberOfHandlers = 6;  
vector<handler> handlers(numberOfHandlers);
```

Repo for this assignment :

<https://github.com/rongminjin/assignment17>