




TCP:Retransmission & Congestion Control

1 Introduction/ Execution of Program

1.1 Introduction

The whole project includes 4 files. (here .py file requires python3.x Interpreter.)

▶  receiver	Folder sender and receiver are used to store files that need to be sent and accepted. Now sender stores a picture and a TXT document to check the correctness of the program. It does not need to be specifically opened at execution time.
▶  sender	
/* agent.py	<i>config.py</i> The parameters needed to call for storing the other three py files only need to be modified when modifying the parameters. This file only needs to be edited and not executed.
/* config.py	
 document.	
/* receiver.py	
/* sender.py	

agent.py 、 *sender.py* 、 *receiver.py* are being with the function as name shows.

1.2 How to Run

1. (option) When you need to modify IP, port, Threshold, Drop rate and other parameters or paths, use the editor to open config for modification.

2. (Linux) Open 3 terminals and type:

```
$ python3 agent.py
```

```
$ python3 receiver.py
```

```
$ python3 sender.py
```

Respectively.

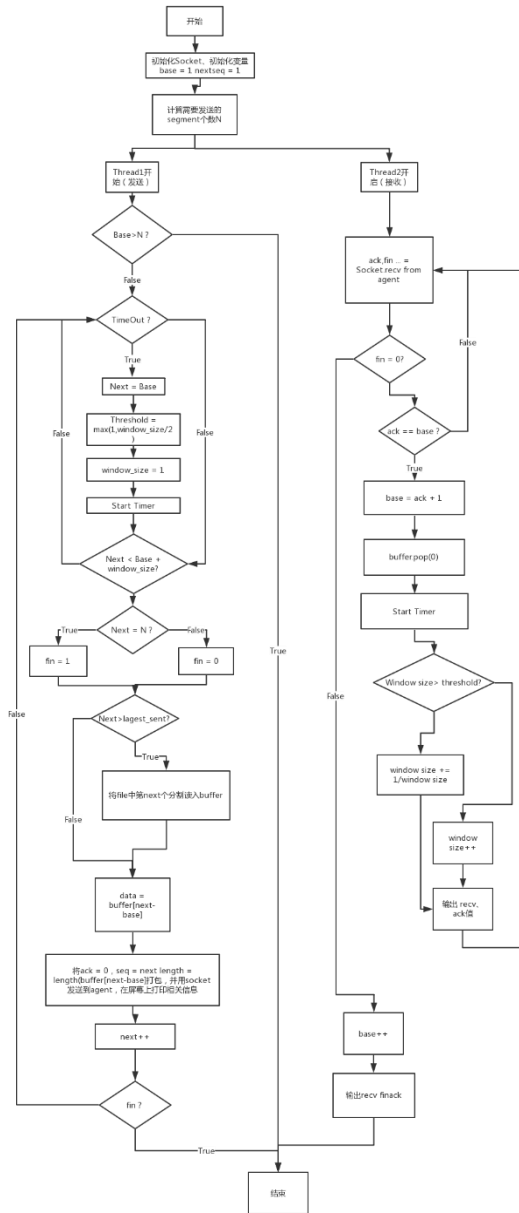
(Or enter Python [filename] in CMD under windows. Any order of execution can run, but sender is best turned on at last, in case it starts to drastically reduce win size and Threshold without receiving acks.

2 Problems.

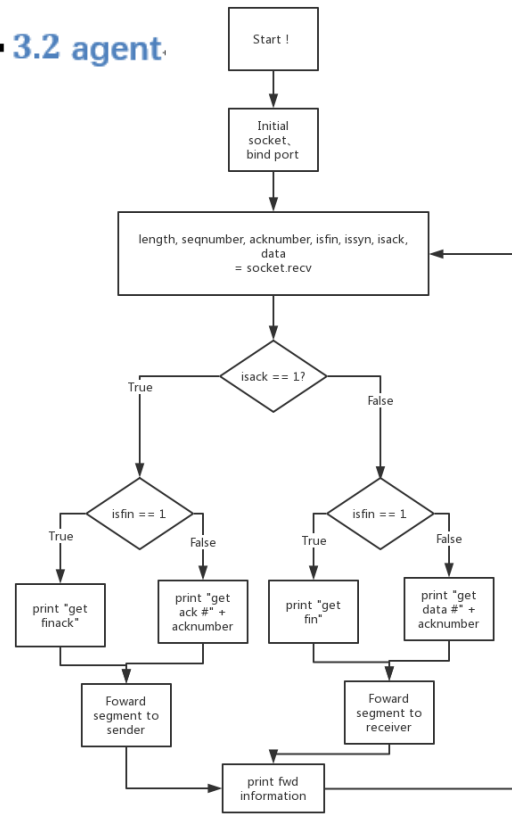
(To be Done)

3 Program Structure

3.1 sender



3.2 agent



3.3 receiver

