开发过程文档

开始界面:

```
Flooding Query Ver 1.0
User: GTY
Type'help'for more information.
>>> ▌
```

输入 help:

```
COMMAND
        ipconfig. . . . . . . . . . . . .: get host peer ipconfig
        search [filename]. . . . . . . : search target file online
        exit. . . . . . . . . . . . . . : exit program
>>> ▌
```

输入 ipconfig:

```
Peer IP config

        IP Address. . . . . . . . . . . .: 127.0.0.1
        Command Port. . . . . . . . . . .: 20001
        Data Port. . . . . . . . . . . . : 20000
>>> ▌
```

输入 search:

```
>>> search 123
{"is_query": true, "filename": "123", "request_ip": "127.0.0.1", "request_c
ss_peer": [{"peer_ip": "127.0.0.1", "peer_data_port": 20000, "peer_command_
find
```

```
Get file '123'
        from 127.0.0.1
        Command Port:20000
Download this file or not?(Y/N)Y

Success download this file
```

退出:

```
>>> exit
Bye.Enter any key to exit.
▌
```

发现的问题:
在输入文件包含后缀名时,会导致无法查找到文件
解决方法:提示用户输入

```
print('\t search [filename]. . . . . . . :  search target file online (filename only)')
```

发现的问题：存在显示文件 not exist online

```
>>> search print.pdf
{"is_query": true, "filename": "print.pdf", "request_ip": "127.0.0.1", "request_co
0, "pass_peer": [{"peer_ip": "127.0.0.1", "peer_data_port": 20000, "peer_command_p
4}not find
print.pdf not exist online.
>>>
```

还未有较好的解决方法。

发现问题：接收发送信息，获取结果时的互斥问题
解决方法：使用 queue 消费者生产者模式

```
            continue
        self.__last_recv['filename'] = recv_dict['filename']
        self.__last_recv['query_time'] = recv_dict['query_time']
        result_queue.put(recv_dict)   # 生产者消费者模式，当获取到结果时生产数据加入queue, user_interface处queue负责消费数据
        print(recv_msg + ' result')
    client_socket.close()
```