

4.21作业

1. 基于代码实例FileSourceExample以及data数据源打印出inflow大于4且LogStore为LogStore-1的

projectname。

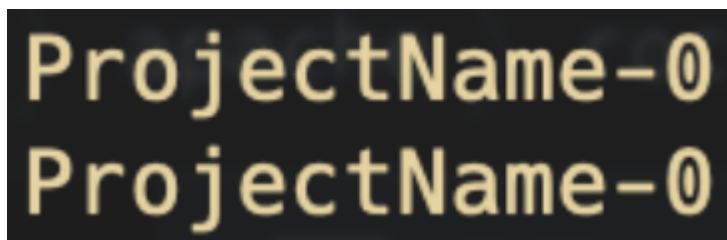
源文件内容：

```
1 {"InFlow":"1","ProjectName":"ProjectName-0","LogStore":"LogStore-0","OutFlow":"0"}
2 }
3 {"InFlow":"2","ProjectName":"ProjectName-1","LogStore":"LogStore-1","OutFlow":"1"}
4 }
5 {"InFlow":"3","ProjectName":"ProjectName-2","LogStore":"LogStore-2","OutFlow":"2"}
6 }
7 {"InFlow":"4","ProjectName":"ProjectName-0","LogStore":"LogStore-0","OutFlow":"3"}
8 }
9 {"InFlow":"5","ProjectName":"ProjectName-1","LogStore":"LogStore-1","OutFlow":"4"}
10 }
    {"InFlow":"6","ProjectName":"ProjectName-2","LogStore":"LogStore-2","OutFlow":"5"}
    }
    {"InFlow":"7","ProjectName":"ProjectName-0","LogStore":"LogStore-0","OutFlow":"6"}
    }
    {"InFlow":"8","ProjectName":"ProjectName-1","LogStore":"LogStore-1","OutFlow":"7"}
    }
    {"InFlow":"9","ProjectName":"ProjectName-2","LogStore":"LogStore-2","OutFlow":"8"}
    }
    {"InFlow":"10","ProjectName":"ProjectName-0","LogStore":"LogStore-0","OutFlow":
    "9"}
```

代码处理：

```
1 public class FileSourceExample {
2     public static void main(String[] args) {
3         DataStreamSource source = StreamBuilder.dataStream("namespace",
4 "pipeline");
5         source.fromFile("data.txt", true)
6             .map(message -> message)
7             .filter(message -> ((JSONObject)message).getInteger("InFlow") > 4 &&
8 ((JSONObject)message).getString("LogStore").equals("LogStore-
9 1"))
10            .map(message -> ((JSONObject) message).getString(key: "ProjectName"))
11            .toPrint(1)
12            .start();
13    }
14 }
```

结果：



```
ProjectName-0
ProjectName-0
```

2. 如果消息处理需要基于**事件时间**进行处理，那么对于乱序的消息窗口需要添加什么额外的设计？

答：只要将消息按照顺序都放入同一个**MessageQueue**中，最后就能被同一个消费者顺序消费了。

