## Flink cep notFllowedBy 用法案例

```
notFllowedBy 意思是只保留第一个条件最后的一条数据跟第二个条件去匹配
```

notNext() notFollowedBy() 后面的模式不命中(严格/非严格)

下图代码说明的就是, 匹配最后一个 name = '2',, 接下来遇到 '0' 就是匹配结果, 所有会有2个结果

```
(Event(A,a3,2),Event(A,a6,0))
(-Event(A,a8,2),Event(A,a10,0))
```

```
1 package com.coder.flink.restart
 2
 3 import org.apache.flink.cep.scala.{CEP, PatternStream}
 4 import org.apache.flink.cep.scala.pattern.Pattern
 5 import org.apache.flink.streaming.api.scala.{DataStream, StreamExecutionEnvironment}
 6 import org.apache.flink.streaming.api.scala._
 7 import scala.collection.Map
 9 object demo1 {
    case class Event(types: String, temp: String, name: String)
10
11
12
    def main(args: Array[String]): Unit = {
13
       val env = StreamExecutionEnvironment.getExecutionEnvironment
14
15
       val data: DataStream[Event] = env.fromElements(
16
      Event("A", "a1", "2"),
17
18
      Event("A", "a2", "2"),
        Event("A", "a3", "2"),
19
20
        Event("A", "a4", "1"),
        Event("A", "a5", "1"),
21
22
        Event("A", "a6", "0"),
        Event("A", "a7", "3"),
23
        Event("A", "a8", "2"),
24
        Event("A", "a9", "1"),
25
        Event("A", "a10", "0")
26
27
       )
28
29
       //定义Pattern接口
30
       val pattern = Pattern.begin[Event]("start") //指定名称
31
      .where(_.name.equals("2"))
32
        .notFollowedBy("middle") //接下来的名称
33
         .subtype(classOf[Event]) //可以将Event事件转换TempEvent事件
         .where(_.name.endsWith("2"))
34
35
         .followedBy("last").where(_.name.endsWith("0"))
```

```
36
 37
        val patternStream: PatternStream[Event] = CEP.pattern(data, pattern)
 38
 39
        //获取触发事件
        val reslut: DataStream[List[Event]] = patternStream.select((pat: Map[String,
 40
    Iterable[Event]]) => {
       val rs: List[Event] = pat.get("last").get.toList
 41
       val rs2: List[Event] = pat.get("start").get.toList
 42
 43
       val aa: Event = rs(0)
 44
       val aa2: Event = rs2(0)
        println(aa +"----"+aa2)
 45
 46
       rs
        })
 47
 48
 49
 50
 51
        reslut.print()
 52
              data.print()
        //
 53
        env.execute()
 54
      }
 55 }
输出结果为:
Event(A,a6,0)----Event(A,a3,2)
Event(A,a10,0)----Event(A,a8,2)
2> List(Event(A,a10,0))
1> List(Event(A,a6,0))
```