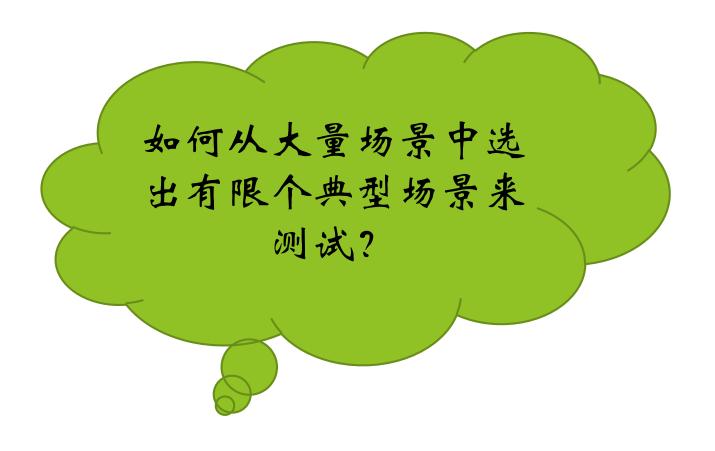
# 场景爆炸问题



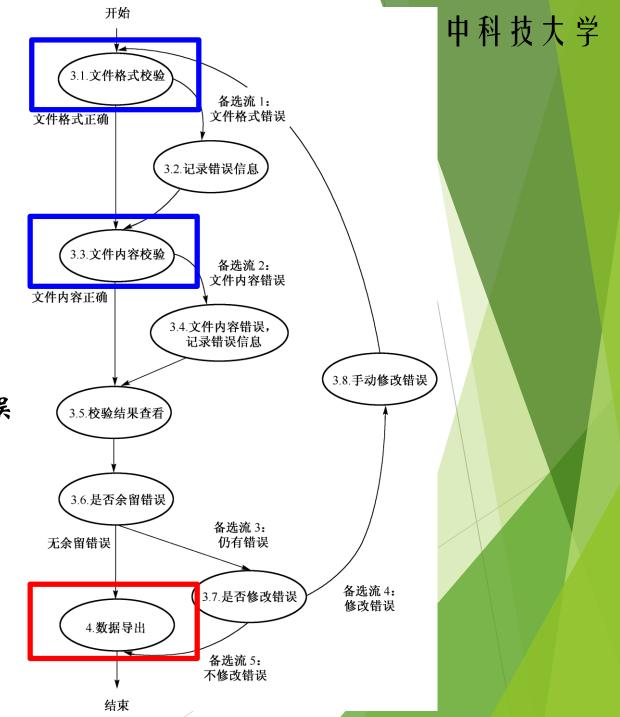
#### 场景爆炸问题



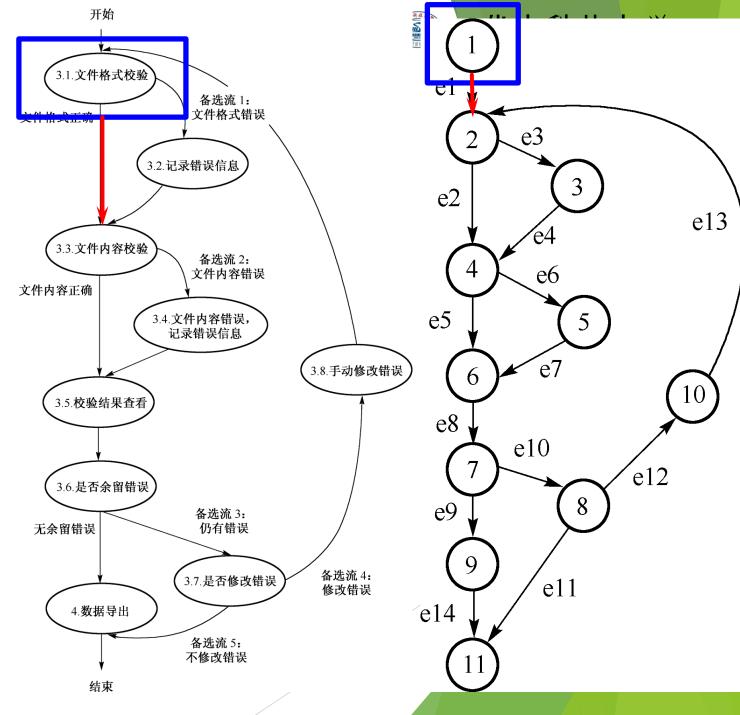
#### 场景爆炸问题

- ▶ 基本流:文件无错,数据成功导出
- ▶ 备选流1:文件格式错误
- ▶ 备选流2:文件内容错误
- ▶ 备选流3:信息文件中仍然存在错误
- ▶ 备选流4:要求修改错误
- ▶ 备选流5:不修改错误

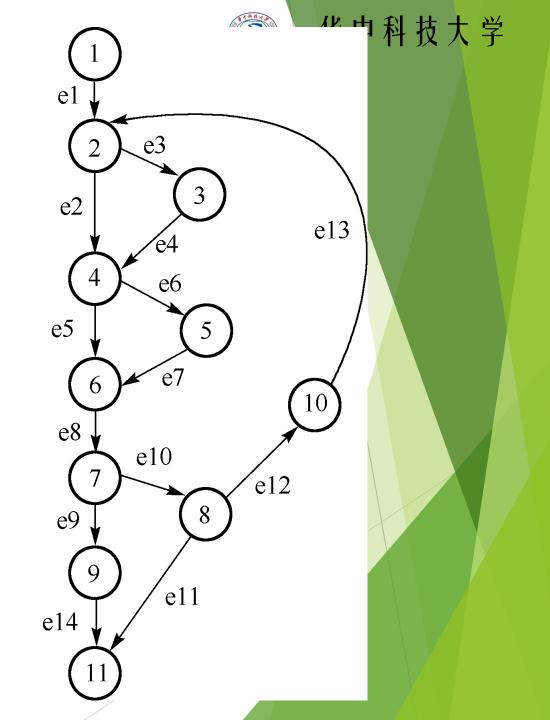
测试最重要、风险最高的 典型场景



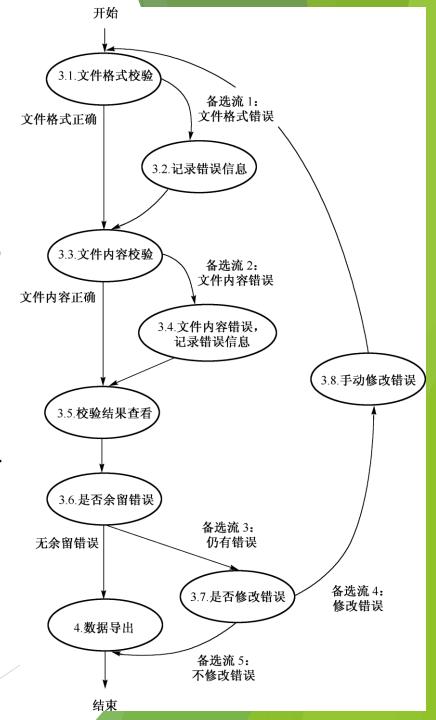
▶針对程序图构建最少 独立路径集合的问题



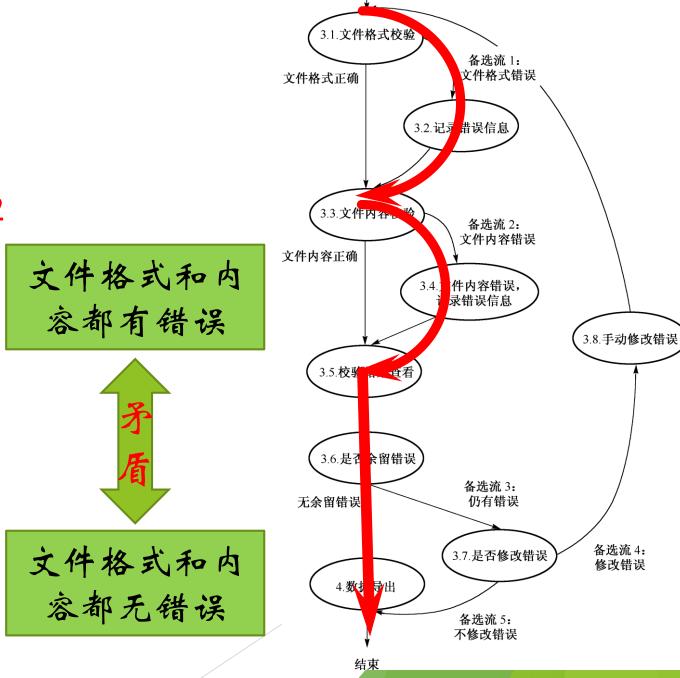
- ▶ 路径1: 1,2,3,4,5,6,7,8,11
- ▶ 路径2: 1,2,4,5,6,7,8,11
- ▶ 路径3: 1,2,3,4,6,7,8,11
- ▶ 路径4: 1,2,3,4,5,6,7,9,11
- ▶ 路径5: 1,2,3,4,5,6,7,8,10,2,4,6,7,9,11



- ▶ 场景1:基本流+备选流1+备选流2+备选流3+备选流5
- ▶ 场景2:基本流+备选流2++备选流3+备选流5
- ▶ 场景3:基本流+备选流1+备选流3+备选流5
- ▶ 场景4:基本流+备选流1+备选流2
- ▶ 场景5:基本流+备选流1+备选流2+备选流3+备选流4



- ▶ 场景4:基本流+备选流1+备选流2
- ▶ 不可行场景
- ▶ 独立路径测试固有的局限性



开始

## 方案2: 基本事件流的个数构建典型场景

- ▶ 场景1:基本流
- ▶ 场景2:基本流+备选流1
- ▶ 场景3:基本流+备选流2
- ▶ 场景4:基本流+备选流3+备选流4
- ▶ 场景5:基本流+备选流3+备选流5

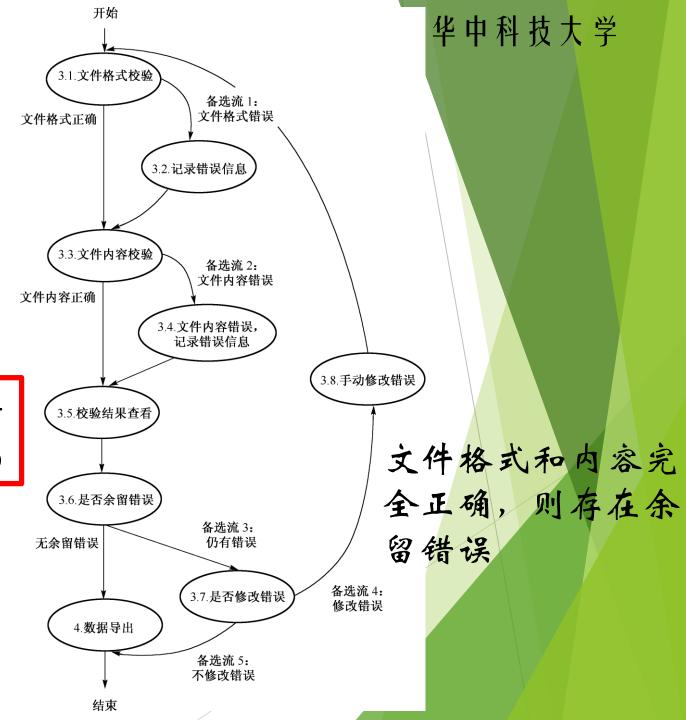
不可行场景



## 方案2: 基本事件流的个数构建典型场景

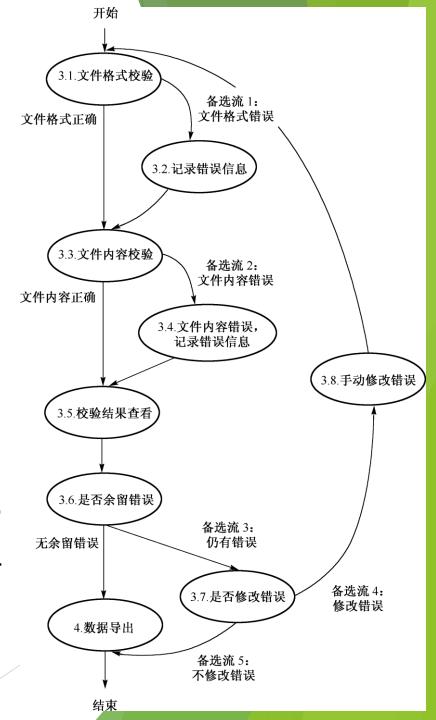
- ▶ 场景1:基本流
- ▶ 场景2:基本流+备选流1
- ▶ 场景3:基本流+备选流2
- ▶ 场景4:基本流+备选流3+备选流4
- ▶ 场景5: 基本流+备选流3+备选流5

不可行场景



## 方案3: 基于需求构建典型场景

- ▶ 场景1:基本流
- ▶ 场景2:基本流+备选流1+备选流3+备选流5
- ▶ 场景3:基本流+备选流2+备选流3+备选流5
- ▶ 场景4:基本流+备选流1+备选流3+备选流4
- ▶ 场景5:基本流+备选流2+备选流3+备选流4
- ▶ 场景6:基本流+备选流1+备选流2+备选流3+备选流5
- ▶ 场景7:基本流+备选流1+备选流2+备选流3+备选流4





#### 方案的比较

- ▶方案1:基于独立路径
  - ▶保证场景独立,无漏洞;但可能有不可行场景
- ▶方案2:基于事件流的个数
  - ▶ 易于缺陷定位;但可能有不可行场景,不保证场景独立和完备
- ▶方案3:基于需求
  - ▶保证场景可行;但不保证场景独立和完备



#### 建议

- ▶事件流之间相互独立,可采用方案1:基于独 立路径
- ▶事件之间存在关联时, 先基于独立路径设计 场景, 然后基于需求补充场景