词法分析---DFA的最小化

编译原理

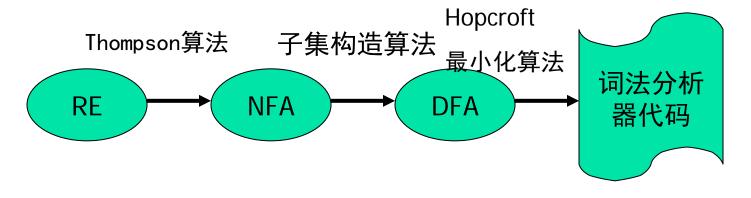
华保健

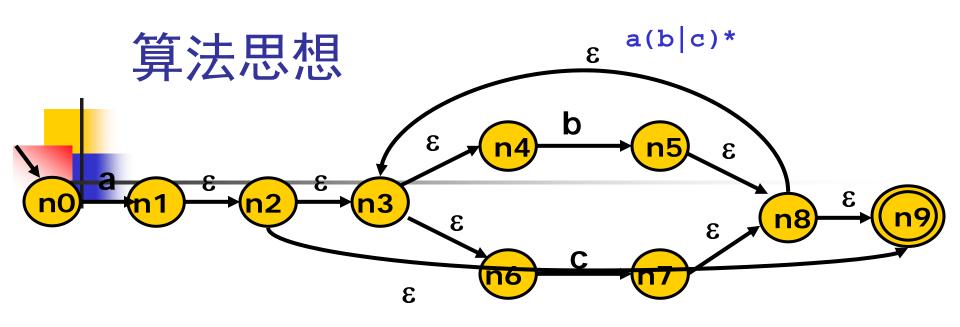
bjhua@ustc.edu.cn

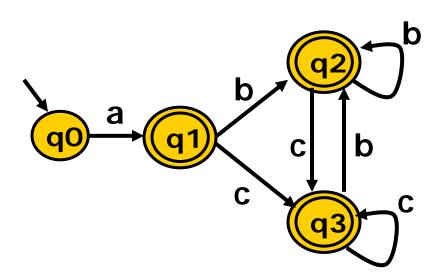
回顾: 自动生成



词法分析器



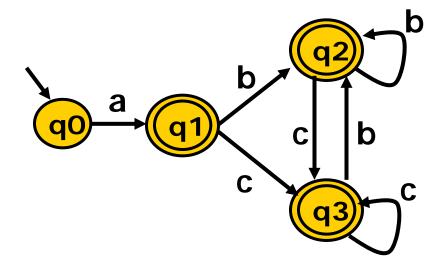




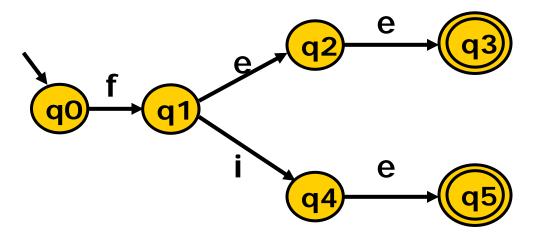
Hopcroft算法

```
// 基于等价类的思想
split(S)
  foreach (character c)
    if (c can split S)
      split S into T1, ..., Tk
hopcroft ()
  split all nodes into N, A
 while (set is still changes)
    split(S)
```

示例1



示例2



对算法的讨论

- 不动点算法
 - 算法为什么能够运行终止
- ■时间复杂度
 - 最坏情况O(2N)?
 - 实际中运行可能会更快
 - 因为并不是每个子集都会分裂