编译原理-作业(1):词法分析

Due: Mar 16, 2021 at the beginning of the class (14:20)

Exercise 3.1.2 (P114): Tagged languages like HTML or XML are different from conventional programming languages in that the punctuation (tags) are either very numerous (as in HTML) or a user-defined set (as in XML). Further, tags can often have parameters. Suggest how to divide the following HTML document:

Here is a photo of my house: <P>

See More Pictures if you liked that one.<P>

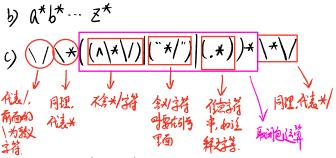
into appropriate lexemes. Which lexemes should get associated lexical values, and what should those values be?

分分下几类:

廷: "Here is a Photo of", "my house", "See", "More Pictures", "if You liked that one". 林登: B. P. B.R. IMG. SRC. A. HERF 林丛符号: /、<、>.=

Exercise 3.3.5 (P125): Write regular definitions for the following languages:

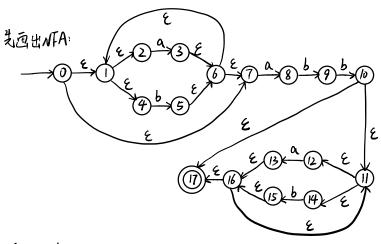
- **b).** All strings of lowercase letters in which the letters are in ascending lexicographic order (词 典递增序排列).
- **c).** Comments, consisting of a string surrounded by /* and */, without an intervening */, unless it is inside double-quotes (").
- h). All strings of a's and b's that do not contain the substring abb.



b) b*(a|ba)*b? 其b?私麦o到个b,这样在还配到在对为外检测后面只有o到个b,不全出现"abb"型串

Exercise 3.7.3 (P166): Convert the following regular expressions to DFAs:

d). (a|b)*abb(a|b)*



到品级:

	a	b
So	۶	52
Sı	Sı	∫3
52	Si	Sz
53	Si	Şφ
Şφ	Ss	Sb
S ₅	S ₅	Sb
56	S ₅	Sb

妌

$$S_{0} = \{0, 1, 2, 4, 7\}$$

$$S_{1} = \{1, 2, 3, 4, 6, 7, 8\}$$

$$S_{2} = \{1, 2, 4, 5, 6, 7, 9\}$$

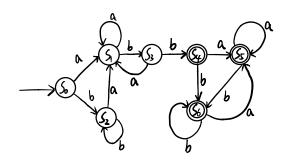
$$S_{3} = \{1, 2, 4, 5, 6, 7, 9\}$$

$$S_{4} = \{1, 2, 4, 5, 6, 7, 10, 11, 12, 14, 17\}$$

$$S_{5} = \{1, 2, 3, 4, 6, 7, 8, 11, 12, 13, 14, 16, 17\}$$

$$S_{6} = \{1, 2, 4, 5, 6, 7, 11, 12, 14, 15, 16, 17\}$$

被表统制DFA如下:



Minimize & BODFAGOT:

