Homework-W3

Homework – week 3

- pp. 125, Exercise 3.3.5 (c)(d)(f)(h)
- pp.152, Exercise 3.6.5

Homework – week 3

- 3.3.5

(c) Answer：

\/*([^*"]*|".*"|*+[^/])**\/

(d)Answer:

want -> 0|A?0?1(A0?1|01)*A?0?|A0?

A -> 0?2(02)*

(f)All strings of a ' s and b's with an even number of a 's and an odd number of b's.

Answer:

(aa|bb) * ((ab|ba) (aa|bb) * (ab|ba) (aa|bb) *) *

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- 3.3.5 (h) Answer：
b*(a+b?)*

Exercise 3.6.5 Answer:

Table 1

state	a	b	ε
0	{0,1}	{0}	∅
1	{1,2}	{1}	∅
2	{2}	{2,3}	{0}
3	∅	∅	∅

Table 2

state	a	b	ε
0	{1}	Ø	{3}
1	Ø	{2}	{0}
2	Ø	{3}	{1}
3	{0}	Ø	{2}

Table 3

state	a	b	ε
0	Ø	Ø	{1,2}
1	{2}	Ø	Ø
2	{2}	Ø	Ø
3	Ø	{4}	Ø
4	Ø	{4}	Ø