# 1. Page 106, Problem 1 id open paren close paren open bracket const type id type id type id operation integer while open paren id operation integer close paren open bracket id operation operation close bracket

close bracket

## 2. Page 106, Problem 4

## a) (a | (bc)\* d)+

	a	b	c	d
1	3	2		4
2			3	
3		2		4
*4	4	2		4

# b) ((0|1)\*(2|3)+) | 0011

	0	1	2	3
1	2	6	7	7
2	3	6	7	7
3	6	4	7	7
*4	6	5	7	7
5	6	6	7	7
6	6	6	7	7
*7	6	6	7	7

# c) (a Not(a))\*)aaa

	a	Not(a)
1	2	
2	3	1
3	4	
*4		

No; If the original set ends with a \* or + and Rev(R) reverses the sequence of characters, then that means that \* or + would be at the beginning of the new sequence and thus be in an invalid set.

#### Page 111, #23 (ii)

I would change my code so that it compares strings, it would actually be comparing each string character by character and if it matches the string from the IGNORE list then it would be told to not print it. Basically it would ignore the tail ends of the word.

#### Example:

IGNORE file has:

cat

walk

stdin has:

cats

fish

walking

walked

dog

output has:

fish

dog