1. #3

=

A=

A=+

A=B+

A=B++

A=B++

A=B+C+

A=B+C+

A=B+C+

A=B+C+A

1. #6b

B=c\*(a\*c+b)

<assign> =><id>=<expr>

=>b=<expr>

=>b=<id>\*<expr>

=>b=c\*(<expr>)

=>b=c\*(<id>\*<expr>)

=>b=c\*(a\*<expr>)

=>b=c\*(a\*<id>+<expr>)

=>b=c\*(a\*c+<id>)

=>b=c\*(a\*c+b)

1. 7a

A=(a+b)\*c

<assign>=><id>=<expr>

=>a=<expr>

=>a=<term>

=>a=<term>\*<factor>

=>a=<factor>\*<factor>

=>a=(<expr>)\*<factor>

=>a=(<expr>+<term>)\*<factor>

=>a=(<term>+<term>)\*<factor>

=>a=(<factor>+<term>)\*<factor>

=>a=(<id>+<term>)\*<factor>

=>a=(a+<term>)\*<factor>

=>a=(a+<factor>)\*<factor>

=>a=(a+<id>)\*<factor>

=>a=(a+b)\*<factor>

=>a=(a+b)\*<id>

=>a=(a+b)\*c

7b

A=b+c+a

<assign> =><id>=<expr>

=>a=<expr>

=>a=<expr>+<term>

=>a=<expr>+<term>+<term>

=>a=<term>+<term>+<term>

=>a=<factor>+<term>+<term>

=>a=<id>+<term>+<term>

=>a=b+<term>+<term>

=>a=b+<factor>+<term>

=>a=b+<id>+<term>

=>a=b+c+<factor>

=>a=b+c+<id>

=>a=b+c+a

1. #11a

Baab and bbaab is generated by the grammer

1. #15

<program> -> begin<stmt\_list>end

<stmt\_list> -><stmt>{;<stmt>}

<stmt> -> <var>=<expression>

<var> -> a|b|c

<expression> -><var>[(+|-)<var>]

1. #17

<s> -><s>b<a>|<a>

<a> ->a<a>|ab<a>