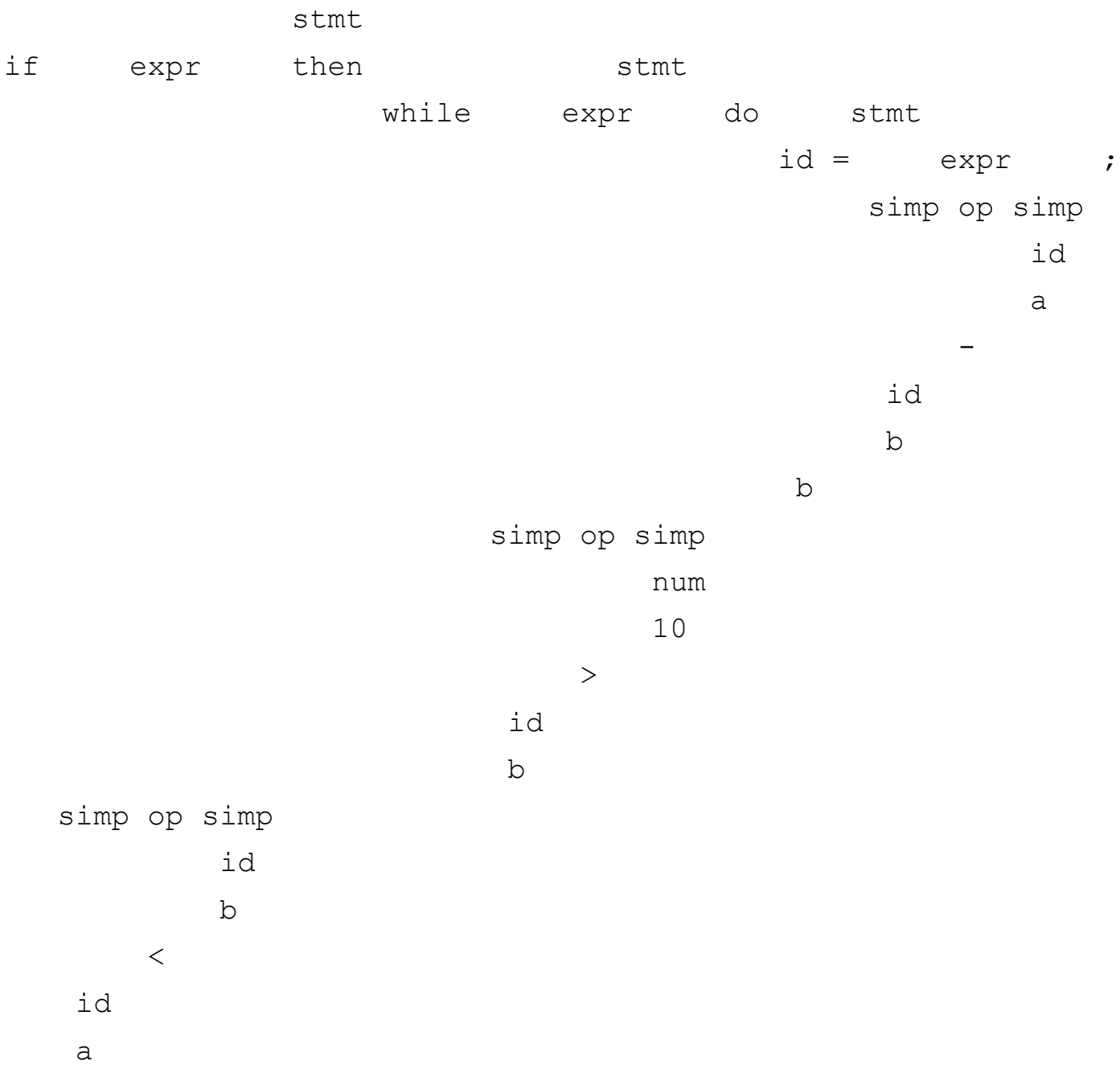
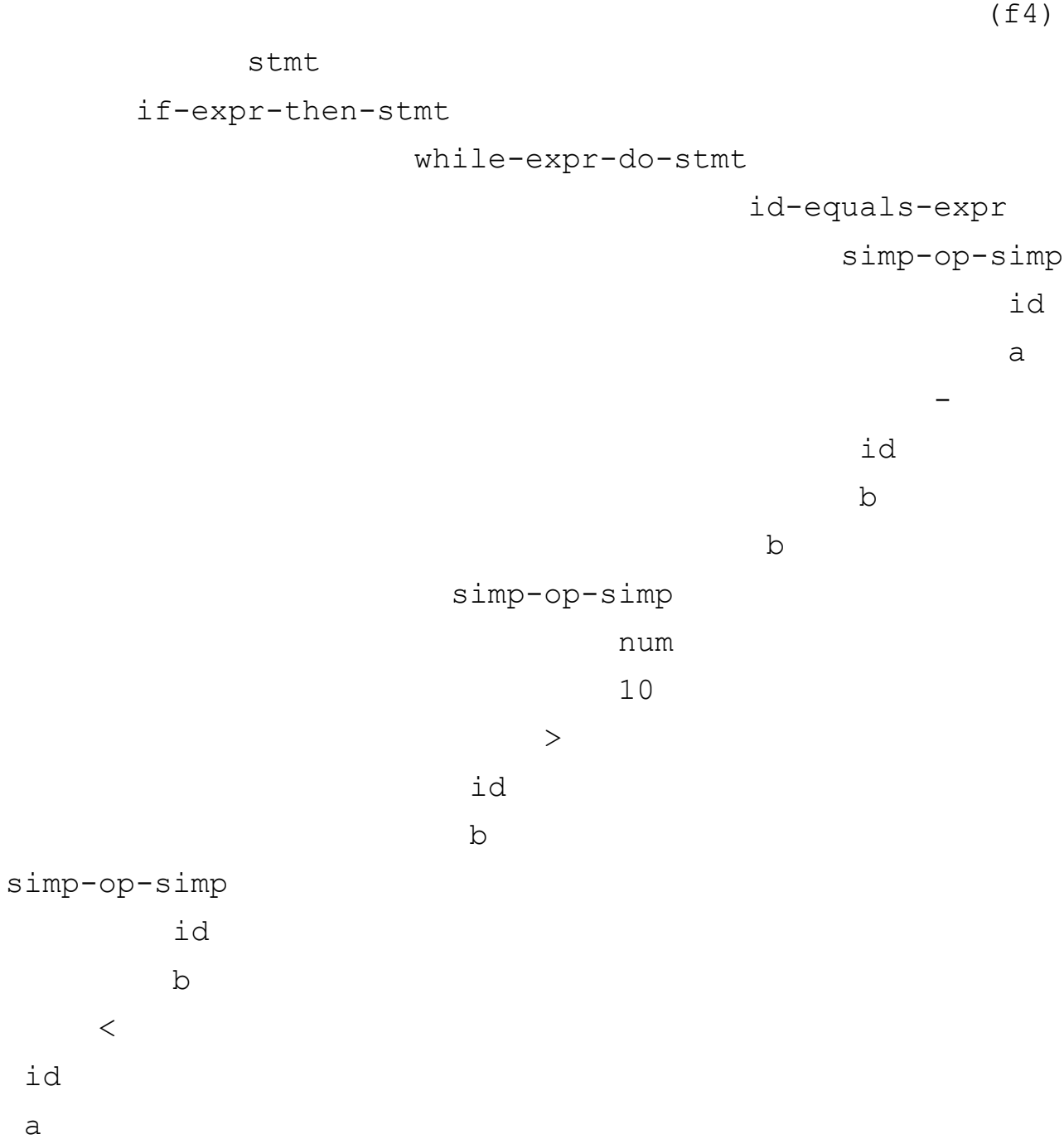
Shift Reduce again. (f1)

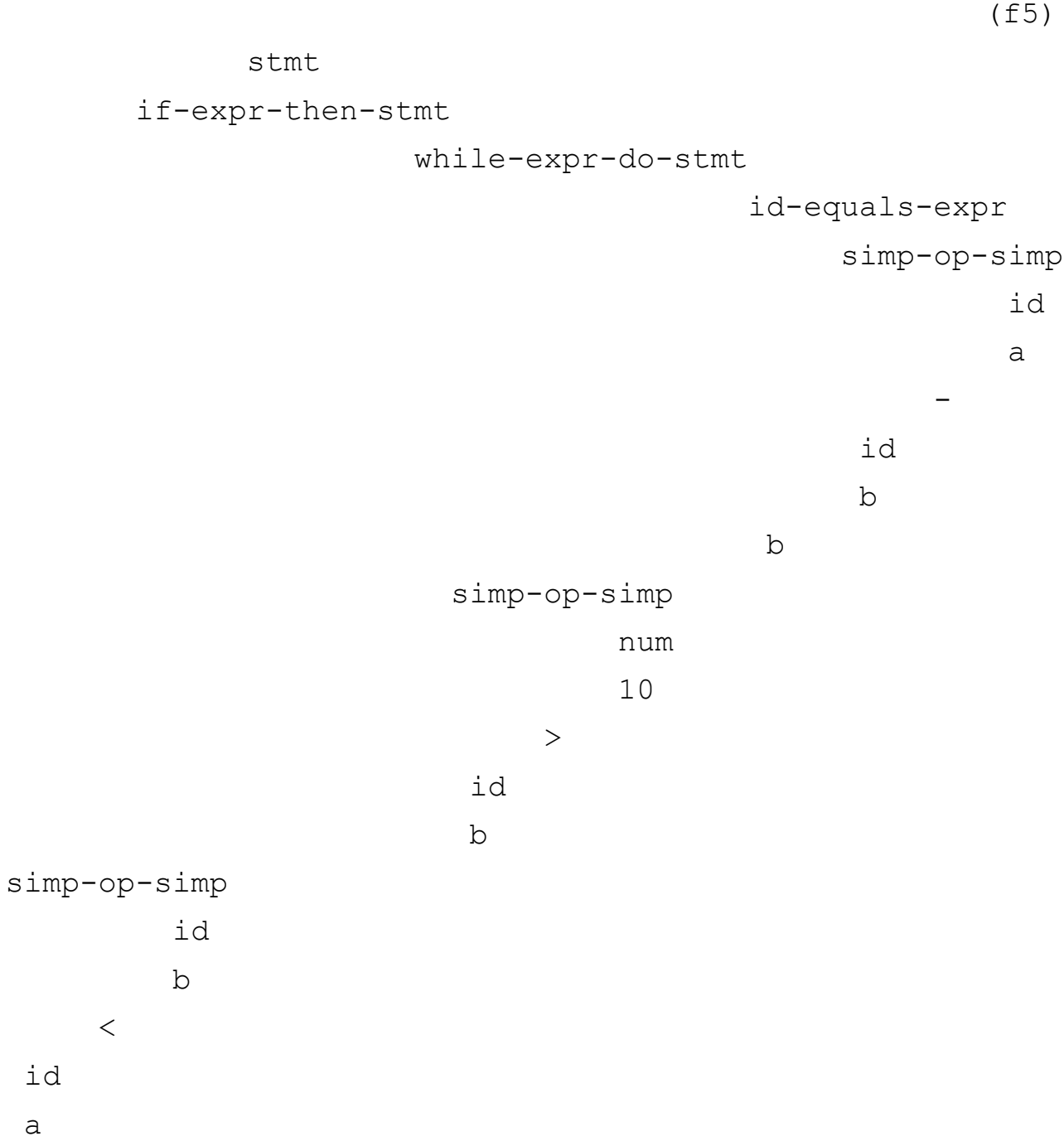
```
if  a   <   b   then while  b   >   10  do  b =  b   -   a   ;
if  id  <   b   then while  b   >   10  do  b =  b   -   a   ;
if simp <   b   then while  b   >   10  do  b =  b   -   a   ;
if simp op  b   then while  b   >   10  do  b =  b   -   a   ;
if simp op  id  then while  b   >   10  do  b =  b   -   a   ;
if simp op simp then while  b   >   10  do  b =  b   -   a   ;
if     expr     then while  b   >   10  do  b =  b   -   a   ;
if     expr     then while  id  >   10  do  b =  b   -   a   ;
if     expr     then while simp >   10  do  b =  b   -   a   ;
if     expr     then while simp op  10  do  b =  b   -   a   ;
if     expr     then while simp op  num do  b =  b   -   a   ;
if     expr     then while simp op simp do  b =  b   -   a   ;
if     expr     then while     expr     do  b =  b   -   a   ;
if     expr     then while     expr     do id =  b   -   a   ;
if     expr     then while     expr     do id =  id  -   a   ;
if     expr     then while     expr     do id = simp -   a   ;
if     expr     then while     expr     do id = simp op  a   ;
if     expr     then while     expr     do id = simp op  id  ;
if     expr     then while     expr     do id = simp op simp ;
if     expr     then while     expr     do id =     expr ;
if     expr     then while     expr     do     stmt
if     expr     then              stmt
                 stmt
```

```
                stmt
if     expr     then                stmt
if     expr     then while     expr     do     stmt
if     expr     then while     expr     do id =     expr     ;
if     expr     then while     expr     do id = simp op simp ;
if     expr     then while     expr     do id = simp op  id  ;
if     expr     then while     expr     do id = simp op  a   ;
if     expr     then while     expr     do id = simp -   a   ;
if     expr     then while     expr     do id =  id  -   a   ;
if     expr     then while     expr     do id =  b   -   a   ;
if     expr     then while     expr     do  b =  b   -   a   ;
if     expr     then while simp op simp do  b =  b   -   a   ;
if     expr     then while simp op  num do  b =  b   -   a   ;
if     expr     then while simp op  10  do  b =  b   -   a   ;
if     expr     then while simp >   10  do  b =  b   -   a   ;
if     expr     then while  id  >   10  do  b =  b   -   a   ;
if     expr     then while  b   >   10  do  b =  b   -   a   ;
if simp op simp then while  b   >   10  do  b =  b   -   a   ;
if simp op  id  then while  b   >   10  do  b =  b   -   a   ;
if simp op  b   then while  b   >   10  do  b =  b   -   a   ;
if simp <   b   then while  b   >   10  do  b =  b   -   a   ;
if  id  <   b   then while  b   >   10  do  b =  b   -   a   ;
if  a   <   b   then while  b   >   10  do  b =  b   -   a   ;
```

(f3)


stmt
if
expr
then
stmt
while
expr
do
stmt
id =
expr
;
simp op simp
id
a
-
id
b
b
simp op simp
num
10
>
id
b
simp op simp
id
b
<
id
a


(f4)
stmt
if-expr-then-stmt
while-expr-do-stmt
id-equals-expr
simp-op-simp
id
a
-
id
b
b
simp-op-simp
num
10
>
id
b
simp-op-simp
id
b
<
id
a


(f5)
stmt
if-expr-then-stmt
while-expr-do-stmt
id-equals-expr
simp-op-simp
id
a
-
id
b
b
simp-op-simp
num
10
>
id
b
simp-op-simp
id
b
<
id
a