

$\langle \text{exp} \rangle_1 ::= \langle \text{exp} \rangle_2 - \langle \text{term} \rangle$

```
if S( $\langle \text{exp} \rangle_2$ ) = rA then
    generate [SUB    S( $\langle \text{term} \rangle$ )]
else
    begin
        GETA ( $\langle \text{exp} \rangle_2$ )
        generate [SUB    S( $\langle \text{term} \rangle$ )]
    end
S( $\langle \text{exp} \rangle_1$ ) := rA
REGA :=  $\langle \text{exp} \rangle_1$ 
```

$\langle \text{term} \rangle ::= \langle \text{factor} \rangle$

```
S( $\langle \text{term} \rangle$ ) := S( $\langle \text{factor} \rangle$ )
if S( $\langle \text{term} \rangle$ ) = rA then
    REGA :=  $\langle \text{term} \rangle$ 
```

$\langle \text{term} \rangle_1 ::= \langle \text{term} \rangle_2 * \langle \text{factor} \rangle$

```
if S( $\langle \text{term} \rangle_2$ ) = rA then
    generate [MUL    S( $\langle \text{factor} \rangle$ )]
else if S( $\langle \text{factor} \rangle$ ) = rA then
    generate [MUL    S( $\langle \text{term} \rangle_2$ )]
else
    begin
        GETA ( $\langle \text{term} \rangle_2$ )
        generate [MUL    S( $\langle \text{factor} \rangle$ )]
    end
S( $\langle \text{term} \rangle_1$ ) := rA
REGA :=  $\langle \text{term} \rangle_1$ 
```

$\langle \text{term} \rangle_1 ::= \langle \text{term} \rangle_2 \text{ DIV } \langle \text{factor} \rangle$

```
if S( $\langle \text{term} \rangle_2$ ) = rA then
    generate [DIV    S( $\langle \text{factor} \rangle$ )]
else
    begin
        GETA ( $\langle \text{term} \rangle_2$ )
        generate [DIV    S( $\langle \text{factor} \rangle$ )]
    end
S( $\langle \text{term} \rangle_1$ ) := rA
REGA :=  $\langle \text{term} \rangle_1$ 
```

Figure 5.19 (cont'd)