$$t_1 := a + b$$

$$t_2 := -t_1$$

$$t_3 := c + d$$

$$t_4 := t_2 * t_3$$

$$t_5 := t_1 + c$$

$$t_7 := t_4 + t_5$$

7.2c

```
1 L0: if i <= 10 goto L1
2     goto L2
3 L1: a[i]:=0
4 L2:</pre>
```

7.5

```
P 
ightarrow \left\{D. \, offset_1 = 0; 
ight\} \, D \, \left\{P. \, offset = D. \, offset_2 
ight\} \ D 
ightarrow \left\{D_1. \, offset_1 = D. \, offset_1; 
ight\} \, D_1; \, \left\{D_2. \, offset_1 = D_1. \, offset_2; 
ight\} \, D_2 \, \left\{D. \, offset_2 = D_2. \, offset_2; 
ight\} \ D 
ightarrow id: \, T \, \left\{enter(id. \, lexeme, T. \, type, D. \, offset_1); \, D. \, offset_2 = D. \, offset_1 + T. \, width; 
ight\} \ T 
ightarrow integer \, \left\{T. \, type = integer; \, T. \, width = 4; 
ight\} \ T 
ightarrow entarrow e
```