7.12.

t,= x × 5 te= tity ts= t2x4 $t_4 = Base(A)$ ts= t4+t3

Store 132 & , 132* ts

```
Homework 6
7.2 (C) define dso-local void @main() {
                ti= alloca i32.
                tz = alloca [10x i3z]
                br label LOQP
      LOOP .
               t3 = load i32, i32* t1
               tu = iamp slt i32 t3 10
                br il ty, labol TRUE, lable FALSE
      TRUE:
                ts = gotelementer [10x132], [10x132]* tz, i320, i32 tz
               store is2 0, is2* ts
               br label LOOP
      FALSE:
                 ret uvid
7.5.
        P \rightarrow
                              | offset = 0; |
           D:S
        D \rightarrow D; D
        D \rightarrow id : T
                              enter (id. lexeme, T. type, offset); offset = offset+T. width;
        T \rightarrow integer
                              T. type = integer; T. width = 4;
                              \{T. type = real; T. width = 8; \}
        T \rightarrow array[num] of T_1 \mid T. type = array(num. val, T_1. type);
                                      T. \ width = \mathbf{num}. \ val \times T_1. \ width;
        T \rightarrow \uparrow T_1
                              T. type = pointer(T_1. type); T. width = 4;
                   图 7.5 计算被声明名字的类型和相对地址
  没继承属性为 ;
      P \rightarrow \{P, i = D, i = o \} D_i S
      D \longrightarrow \{D_i, i = D, i\} D_i, \{D_i, i = D_i, i\} D_i
      D -> id; T { enter (id.loxens, T.type, D.i); D.i = D.i + T.width)
      T → integer {T-type = integer; T.width=43
       T → real £T. type = real; T. width = 83
       T -> array [num] of Ti & T. type = array (num.val, Ti.type)
                                          T. width = num val x T1. width }
       T \rightarrow 1 T_1 \{ T. type = pointer(T_1. type), T. width = 4; \}
```

8.1e.

MOV e Ro

ADD & R.

MUL d R.

MOV b R,

ADD C RI

mov a Rz

DLV RI R.

SUB R. R.

8.2 e.

MOV e(Rs) Ro

Mov f(Rs) R.

ADD RO RI

MOV der Ro

MUL RO RI

MOV birs Ro

MOV C(Rs) Rz

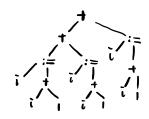
ADD R. R.

MOV ALRO RO

DIV R. Ro

SUB R. R.

8.6 首先 (++さ) + (++さ) + (++さ) 的 中间代码 应如下



t+ i ⇔ i=it1 ,该就式计算结果应保留在某个寄存器中 用于上一层计算, 因此 三f i=it1 的 计算次存不会影响最终结果, 为6.

对结果为7,一定是某个正计结果未保留在新器中, gcc的处理可能注:一条 INC 描绘表完成相同的 tti 操作

即出现了

MOV 0 R1 # 1=0

INC R # 0=1

INC RI # JZZ

MOV RI R2

ADD RI RZ # RZ=4

INC R, # 1=3

ADD RI R. # output = 7.