Warning: if a record variable \mathbb{P}^{\uparrow} is created by the second form of New, then this variable must not change \mathbb{R}^{g} variant during program execution. Assignment to the entire variable is an error; however one can assign to the components of \mathbb{P}^{\uparrow} .

The first step in programming a solution to our problem posed above, is to introduce a pointer variable. Let it be called NewP. Then the statement

```
New (NewP)
```

allocates a new variable of type Person.

Next the new variable, referenced by the pointer NewP, is to be inserted after the person referenced by Pt. See Figure 10.d.

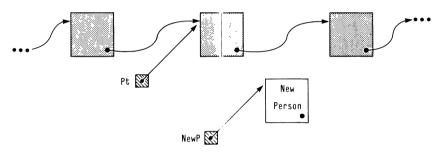


Figure 10.d Linked List Before Insertion

Insertion is a simple matter of changing the pointers:

```
NewP↑.Next := Pt↑.Next;
Pt↑.Next := NewP
```

Figure 10.e illustrates the result.

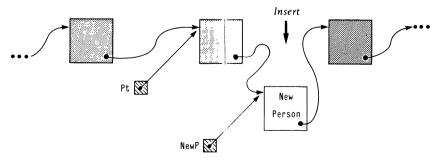


Figure 10.e Linked List After Insertion