

Homework7

负责助教：张骏呈

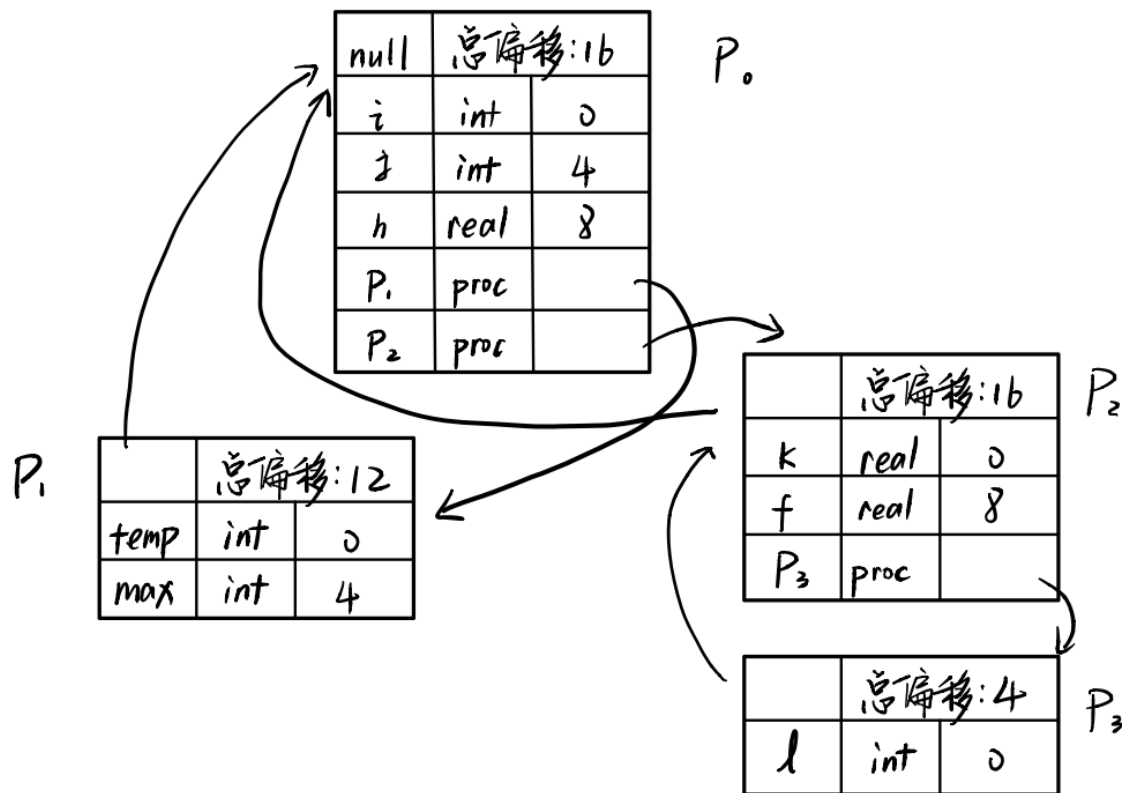
xzwj@mail.ustc.edu.cn



习题2



模仿PPT上的符号表即可



翻译方案

```
T -> record L D end {T.type = record (top(tblptr));  
                      T.width = top(offset);  
                      pop(tblptr); pop(offset);}
```

```
L -> ε {t = mkTable(nil); push(t, tblptr); push(0, offset); }
```

```
D -> D; D
```

```
D -> id: T { if (T.type != char) top(offset) = top(offset) + 4 -  
              top(offset)%4;  
            enter(top(tblptr) , id.lexeme , T.type , top(offset));  
              top(offset) = top(offset) + T.width;}
```

```
T -> integer {T.type = integer; T.width=4;}
```

```
T -> real {T.type = real; T.width = 8;}
```

```
T -> long {T.type = long; T.width = 4;}
```

```
T -> char {T.type = char; T.width = 1;}
```