

```

{l  $\xrightarrow{\alpha}$  nil}
m := nil;
{m  $\xrightarrow{\epsilon}$  nil  $\star$  l  $\xrightarrow{\alpha}$  nil}
while { $\exists \beta, \alpha'. \alpha = \beta\alpha' \wedge m \xrightarrow{\beta^R}$  nil  $\star$  l  $\xrightarrow{\alpha'}$  nil}
  i  $\neq$  nil
do begin
  t := l.2;           {m  $\xrightarrow{\beta^R}$  nil  $\star$  l  $\xrightarrow{x}$  t  $\xrightarrow{\alpha''}$  nil}
  l.2 := m;           {l  $\xrightarrow{x}$  m  $\xrightarrow{\beta^R}$  nil  $\star$  t  $\xrightarrow{\alpha''}$  nil}
  m := l;             {m  $\xrightarrow{(\beta x)^R}$  nil  $\star$  t  $\xrightarrow{\alpha''}$  nil}
  l := t;             {m  $\xrightarrow{(\beta x)^R}$  nil  $\star$  l  $\xrightarrow{\alpha''}$  nil}
end
{m  $\xrightarrow{\alpha^R}$  nil}

```