```
19-1/
            T (const c) Y P K O =
             K (const void) of if \( \gamma = Effect \)
             K (const true) or if r = Test and c = false
             k (const c) o o.w.
           I (seg e, ez) y pko=
           I e, Effect p
             (lei o'. I ez y p
               (lez'o". K seg(e', ez') o") o
           seg(e_1, e_2) = e_2 if e_1 = (const void)
                      (seg (seg e, e3) e4) if ez = (seg e3 e4)
                        (seg e, ez) o. w.
           result (e) 2 ez if e= (seg e, ez)
                                0, W,
           I (if en en en en) V P K or =
              I e, Test p K, o
           where K, e', o' = if result (e') = (const true)
                                   I ez x, p (lez'o", k stylei,ez)c
           Y = Value if Y = App if result (e') = (const false)
            Y O.W. I ez Y, P (le'z o'', k seg(e', ez') o'')
                                0, 6,
                                  I ez Y, P (de'zo", Iez Y, P kz o"
                                  to e'3 0" =
                                  if e'_1 = e'_3 = (const c)
                                   K seg (ei, ei)
                                   0, 6,
                                   K (if e' e'z e'z)
```

```
I (assign x e) y p k o =
  I e Effect pko if p(x) = Var(x', op, s, lx') and refts
                                                            refes
 I e Value p k, o oil.
    K, e' o, = K seq ( (assign x' e'), (const c)) oz
    Oz = O, [ Ix1 >> Eassign 3 U O, (Ix1)]
    c = true if Y=Test o.w. c = void
[ (primref p) 7 p k o =
  if y = Test, k (const tre) o
   Y = Effect, k (const void) o
    Y = Value, k (primefp) o
    N= Applop, N, Ly), fold (primeef p) ypk o
fold (primref p) App (opp 7, Ly) p k o = visit (op, Value, k, o)
  k_i e'_i \sigma_i' = k \left( primpef p \right) \sigma_i \left( o_i w_i \right)
              k (const c') oz if result(e', ) = (const c) and
         where oz = o. [ In H Einlined 30 o. (12)] P(C) = C'
[ (calle, ez) y p k o =
                                        visit (Opad (e, p, le), y, k, o)
                                        = I e y p k, o if o(le) = unvish
  where op = Opnd (ez, p, lez) lez fresh
                                        where ki= le'of, ke'ofle He']
        71 = App (op, 7, 12,) /y, fresh ke' o where o(le) = e'
        O, = O [lez > unvisited, 17, >0]
   Kie' oz = if inlined & oz (lvi), Kei oz
              visit (op, Value, Kz, Oz)
      where Kz e'z o3 = K ((all e' e'z) o3
```

```
I (lambda x e) y p k o =
  if Y=Test, K (const true) o
  if Y = Effect, k (const void) o
 if 7 = Applop, 7, , ly), fold (lambda x e) y p k o
 if 7 = Value, I e Value p. K. J.
       x = Var(x, null, s, lx)
      x' = Var(x', null, \sigma(lx), lx') x', lx' fresh
      P, = P[X >> X]
       σ, = σ[1x' → Ø]
      Ki e' oz = K (lambda x' e') oz
fold (lambda x e) ApploP/71, 17) P K o =
  I e y, p, k, o,
where x = Var(x, null, s, lx)
      x' = Var(x', op, \sigma(lx), lx') x', lx' fresh
       P_1 = P[x \mapsto x']
      5, = 0 [1x' +70]
  K, e' oz = { Visit lop, Effect, kz, oz} if ref € oz(lx') and assign & oz(lx')
            ( visit (op, Effect, k3, oz)
                                                      assign \in \sigma_z(1x')
                visit (op, Value, Kz, oz)
 Kz e' o3 = K seg (e', e') o3 [1/ +> Eirlined 3 v o3(14)]
 K3 e' 03 = K (call (lambda x'e') e') o
Sketch
    I (refx)
              p(x) = Var ( ", op
                   visit lod ( ... )
```

