```
                                    func
  0:      if     p > 0 goto 7
  1:      goto   2
  2: 7:
  3:      call   t0 <- Input
  4:      if     t0 = 0 goto 6
  5:      goto   2
  6: 6:
  7:      if     q > 0 goto 5
  8:      goto   2
  9: 5:
 10:      param  1 <- q
 11:      param  0 <- 1
 12:      call   t1 <- func
 13:      if     t1 = 1 goto 4
 14:      goto   2
 15: 4:
 16:      param  1 <- 1
 17:      param  0 <- p
 18:      call   t2 <- func
 19:      if     t2 = 1 goto 1
 20:      goto   2
 21: 1:
 22:      assign t3 <- 1
 23:      goto   3
 24: 2:
 25:      assign t3 <- 0
 26: 3:
 27:      return t3
```

```
il_test_shortcircuit_return
  0:      param  1 <- 1
  1:      param  0 <- 1
  2:      call   t0 <- func
  3:      param  1 <- 0
  4:      param  0 <- 0
  5:      call   t1 <- func
  6:      call   t2 <- Input
  7:      param  1 <- t2
  8:      call   t3 <- Input
  9:      param  0 <- t3
 10:      call   t4 <- func
```