

```

                                test08
0:   call   t0 <- Input
1:   assign a <- t0
2:   if     a >= 0 goto 2
3:   goto   3
4: 2:
5:   assign t1 <- 1
6:   goto   4
7: 3:
8:   assign t1 <- 0
9: 4:
10:  assign b <- t1
11: 6_while_cond:
12:   if     b = 1 goto 7_while_body
13:   goto   5
14: 7_while_body:
15:   param  0 <- a
16:   call   t2 <- fib
17:   param  0 <- t2
18:   call   print
19:   param  0 <- a
20:   call   t3 <- fact
21:   param  0 <- t3
22:   call   print
23:   call   t4 <- Input
24:   assign a <- t4
25:   if     a >= 0 goto 12
26:   goto   13
27: 12:
28:   assign t5 <- 1
29:   goto   14
30: 13:
31:   assign t5 <- 0
32: 14:
33:   assign b <- t5
34:   goto   6_while_cond
35: 5:

```

```

                                fib
0:   if     n <= 1 goto 1_if_true
1:   goto   2_if_false
2: 1_if_true:
3:   return n
4:   goto   0
5: 2_if_false:
6:   sub     t0 <- n, 1
7:   param   0 <- t0
8:   call    t1 <- fib
9:   sub     t2 <- n, 2
10:  param   0 <- t2
11:  call    t3 <- fib
12:  add     t4 <- t1, t3
13:  return  t4
14: 0:

```

```

                                fact
0:   if     n <= 0 goto 1_if_true
1:   goto   2_if_false
2: 1_if_true:
3:   return 0
4:   goto   0
5: 2_if_false:
6:   if     n <= 1 goto 5_if_true
7:   goto   6_if_false
8: 5_if_true:
9:   return n
10:  goto   4
11: 6_if_false:
12:  sub     t0 <- n, 1
13:  param   0 <- t0
14:  call    t1 <- fact
15:  mul     t2 <- n, t1
16:  return  t2
17: 4:
18: 0:

```

```

                                print
0:   param  0 <- x
1:   call   Output

```