

```

                                factorial
0:    &()    *t0 <- &_str_1
1:    param 0 <- t0
2:    call  WriteStr
3:    call  WriteLn
4:    call  WriteLn
5:    &()    *t1 <- &_str_2
6:    param 0 <- t1
7:    call  t2 <- ReadNumber
8:    assign i <- t2
9: 5_while_cond:
10:   if    i > 0 goto 6_while_body
11:   goto  4
12: 6_while_body:
13:   &()    *t3 <- &_str_3
14:   param 0 <- t3
15:   call  WriteStr
16:   param 0 <- i
17:   call  WriteInt
18:   &()    *t4 <- &_str_4
19:   param 0 <- t4
20:   call  WriteStr
21:   param 0 <- i
22:   call  t5 <- fact
23:   param 0 <- t5
24:   call  WriteInt
25:   call  WriteLn
26:   &()    *t6 <- &_str_5
27:   param 0 <- t6
28:   call  t7 <- ReadNumber
29:   assign i <- t7
30:   goto  5_while_cond
31: 4:

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```

                                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 6_if_true
7:    goto  7_if_false
8: 6_if_true:
9:    return n
10:   goto  5
11: 7_if_false:
12:   sub    t8 <- n, 1
13:   param 0 <- t8
14:   call  t9 <- fact
15:   mul    t10 <- n, t9
16:   return t10
17: 5:
18: 0:

```

```

                                ReadNumber
0:    param 0 <- str
1:    call  WriteStr
2:    call  t8 <- ReadInt
3:    assign i <- t8
4:    return t8

```