

```

                                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 i

```