```
&()
                *t6 <- &_str_1
  0:
  1:
         param 0 <- t6
  2:
               WriteStr
         call
  3:
         param 0 <- n
  4:
         call
                WriteInt
  5:
         &()
                *t7 <- &_str_2
         param 0 <- t7
  6:
  7:
         call
               WriteStr
         param 1 <- 1
  8:
         param 0 <- p
  9:
 10:
                t8 <- DIM
         call
 11:
         if
                t8 < 1 goto 5_if_true
 12:
                6_if_false
         goto
 13: 5_if_true:
         return 0
 14:
 15:
         goto 4
 16: 6_if_false:
 17: 4:
 18:
         param 0 <- p
                t10 <- DOFS
 19:
         call
                t11 <- 0, t10
 20:
         add
                t12 <- p, t11
 21:
         add
         assign @t12 <- 1 // *t12 = &p
 22:
         param 0 <- p
 23:
 24:
         call
                t14 <- D0FS
 25:
         add
                t15 <- 4, t14
                t16 <- p, t15
         add
 26:
         assign @t16 <- 2 // *t16 = &p
 27:
 28:
         assign pidx <- 2
 29:
         assign psqrt <- 1
 30:
         assign v <- 3
 31: 15_while_cond:
 32:
               v <= n goto 16_while_body</pre>
         if
 33:
         goto 14
 34: 16_while_body:
 35:
         assign isprime <- 1
         assign i <- 1
 36:
 37: 21_while_cond:
         if
                isprime = 1 goto 23
 38:
 39:
         goto
 40: 23:
 41:
                i <= psqrt goto 22_while_body</pre>
         if
 42:
         goto
 43: 22_while_body:
                t17 <- i, 4
 44:
         mul
 45:
         param 0 <- p
                t18 <- DOFS
 46:
         call
                t19 <- t17, t18
 47:
         add
 48:
         add
                t20 <- p, t19
                t21 <- v, @t20
 49:
         div
                t22 <- i, 4
 50:
         mul
         param 0 <- p
 51:
                t23 <- D0FS
 52:
         call
 53:
         add
                t24 <- t22, t23
                t25 <- p, t24
 54:
         add
 55:
                t26 <- t21, @t25
         mul
                t26 = v goto 26_if_true
         if
 56:
                27_if_false
 57:
         goto
 58: 26_if_true:
 59:
         assign isprime <- 0
 60:
         goto 25
 61: 27_if_false:
 62: 25:
 63:
                t27 <- i, 1
 64:
         assign i <- t27
         goto
               21_while_cond
 65:
 66: 20:
 67:
         if
                isprime = 1 goto 32_if_true
                33_if_false
 68:
         goto
 69: 32_if_true:
 70:
         mul
                t28 <- pidx, 4
 71:
         param 0 <- p
                t29 <- DOFS
 72:
         call
                t30 <- t28, t29
 73:
         add
                t31 <- p, t30
 74:
         add
         assign @t31 <- v // *t31 = &p
 75:
 76:
         add t32 <- pidx, 1
 77:
         assign pidx <- t32
 78:
         if
               t32 = t8 goto 38_if_true
 79:
         goto 39_if_false
 80: 38_if_true:
         &() *t33 <- &_str_3
 81:
         param 0 <- t33
 82:
         call WriteStr
 83:
 84:
         assign n < -0
         goto 37
 85:
 86: 39_if_false:
 87: 37:
 88:
        goto 31
 89: 33_if_false:
 90: 31:
 91:
         add
                t34 <- v, 2
         assign v <- t34
 92:
                t35 <- psqrt, 4
 93:
         mul
 94:
         param 0 <- p
         call
               t36 <- D0FS
 95:
                t37 <- t35, t36
 96:
         add
 97:
         add
                t38 <- p, t37
                t39 <- psqrt, 4
 98:
         mul
 99:
         param 0 <- p
                t40 <- DOFS
100:
         call
                t41 <- t39, t40
101:
         add
102:
         add
                t42 <- p, t41
103:
         mul
                t43 <- @t38, @t42
                t34 > t43 goto 45_if_true
104:
         if
105:
               46_if_false
         goto
106: 45_if_true:
         add t44 <- psqrt, 1
107:
         assign psqrt <- t44
108:
109:
         if t44 >= pidx goto 50_if_true
         goto 51_if_false
110:
111: 50_if_true:
               *t45 <- &_str_4
112:
         &()
         param 0 <- t45
113:
         call WriteStr
114:
115:
         assign n <- 0
        goto 49
116:
117: 51_if_false:
118: 49:
119:
        goto 44
120: 46_if_false:
121: 44:
122:
        goto 15_while_cond
123: 14:
                *t46 <- &_str_5
124:
         &()
         param 0 <- t46
125:
         call WriteStr
param 0 <- pidx
126:
127:
         call WriteInt
128:
129:
         &()
               *t47 <- &_str_6
130:
         param 0 <- t47
         call WriteStr
131:
132:
```

primes

133:

return pidx

\*t0 <- &\_str\_9

\*t1 <- &\_str\_10

t4 <- CalcPrimes

WriteStr

WriteLn

WriteStr

\*t3 <- &p

\*t5 <- &p

PrintPrimes

call t2 <- ReadInt

0:

1:

2:

3:

4:

5:

6:

7:

8:

9:

10:

11:

12:

13:

14:

15:

16:

17:

18:

&()

call

call

&()

call

&()

call

&()

call

param 0 <- t0

param 0 <- t1

assign n < -t2

param 1 <- n

param 0 <- t3

assign pn <- t4

param 2 <- pn

param 0 <- t5

param 1 <- n

CalcPrimes

```
PrintPrimes
               *t6 <- &_str_7
 0:
        &()
        param 0 <- t6
 1:
        call WriteStr
 3:
        param 0 <- n
 4:
        call
               WriteInt
 5:
        call
               WriteLn
        assign i <- 0
 6:
 7: 5_while_cond:
 8:
               i < pn goto 6_while_body</pre>
 9:
        goto
10: 6_while_body:
11:
               *t7 <- &_str_8
        &()
        param 0 <- t7
12:
               WriteStr
13:
        call
14:
        mul
               t8 <- i, 4
15:
        param 0 <- p
16:
        call
               t9 <- DOFS
               t10 <- t8, t9
17:
        add
               t11 <- p, t10
18:
        add
        param 0 <- @t11
19:
20:
        call
               WriteInt
21:
        add
               t12 <- i, 1
        assign i <- t12
22:
23:
        div
               t13 <- t12, 8
24:
        mul
               t14 <- t13, 8
               t14 = t12 goto 12_if_true
25:
        if
26:
               13_if_false
        goto
27: 12_if_true:
       call WriteLn
28:
29:
        goto
              11
30: 13_if_false:
31: 11:
               5_while_cond
32:
        goto
33: 4:
34:
        call WriteLn
```