

```

0:      &()      t0 <- _str_9
1:      param 0 <- t0
2:      call   WriteStr
3:      call   WriteLn
4:      &()      t1 <- _str_10
5:      param 0 <- t1
6:      call   WriteStr
7:      call   t2 <- ReadInt
8:      assign n <- t2
9:      param 1 <- n
10:     &()      t3 <- p
11:     param 0 <- t3
12:     call   t4 <- CalcPrimes
13:     assign pn <- t4
14:     param 2 <- pn
15:     param 1 <- n
16:     &()      t5 <- p
17:     param 0 <- t5
18:     call   PrintPrimes

```

```

0:      &()      t6 <- _str_1
1:      param 0 <- t6
2:      call   WriteStr
3:      param 0 <- n
4:      call   WriteInt
5:      &()      t7 <- _str_2
6:      param 0 <- t7
7:      call   WriteStr
8:      param 1 <- 1
9:      param 0 <- p
10:     call   t8 <- DIM
11:     assign N <- t8
12:     if      N < 1 goto 5_if_true
13:     goto   6_if_false
14: 5_if_true:
15:     return 0
16:     goto   4
17: 6_if_false:
18: 4:
19:     mul      t9 <- 0, 4
20:     param 0 <- p
21:     call   t10 <- DOFS
22:     add      t11 <- t9, t10
23:     add      t12 <- p, t11
24:     assign @t12 <- 1
25:     mul      t13 <- 1, 4
26:     param 0 <- p
27:     call   t14 <- DOFS
28:     add      t15 <- t13, t14
29:     add      t16 <- p, t15
30:     assign @t16 <- 2
31:     assign pidx <- 2
32:     assign psqrt <- 1
33:     assign v <- 3
34: 15_while_cond:
35:     if      v <= n goto 16_while_body
36:     goto   14
37: 16_while_body:
38:     assign isprime <- 1
39:     assign i <- 1
40: 21_while_cond:
41:     if      isprime = 1 goto 23
42:     goto   20
43: 23:
44:     if      i <= psqrt goto 22_while_body
45:     goto   20
46: 22_while_body:
47:     mul      t17 <- i, 4
48:     param 0 <- p
49:     call   t18 <- DOFS
50:     add      t19 <- t17, t18
51:     add      t20 <- p, t19
52:     div      t21 <- v, @t20
53:     mul      t22 <- i, 4
54:     param 0 <- p
55:     call   t23 <- DOFS
56:     add      t24 <- t22, t23
57:     add      t25 <- p, t24
58:     mul      t26 <- t21, @t25
59:     if      t26 = v goto 26_if_true
60:     goto   27_if_false
61: 26_if_true:
62:     assign isprime <- 0
63:     goto   25
64: 27_if_false:
65: 25:
66:     add      t27 <- i, 1
67:     assign i <- t27
68:     goto   21_while_cond
69: 20:
70:     if      isprime = 1 goto 32_if_true
71:     goto   33_if_false
72: 32_if_true:
73:     mul      t28 <- pidx, 4
74:     param 0 <- p
75:     call   t29 <- DOFS
76:     add      t30 <- t28, t29
77:     add      t31 <- p, t30
78:     assign @t31 <- v
79:     add      t32 <- pidx, 1
80:     assign pidx <- t32
81:     if      pidx = N goto 38_if_true
82:     goto   39_if_false
83: 38_if_true:
84:     &()      t33 <- _str_3
85:     param 0 <- t33
86:     call   WriteStr
87:     assign n <- 0
88:     goto   37
89: 39_if_false:
90: 37:
91:     goto   31
92: 33_if_false:
93: 31:
94:     add      t34 <- v, 2
95:     assign v <- t34
96:     mul      t35 <- psqrt, 4
97:     param 0 <- p
98:     call   t36 <- DOFS
99:     add      t37 <- t35, t36
100:    add      t38 <- p, t37
101:    mul      t39 <- psqrt, 4
102:    param 0 <- p
103:    call   t40 <- DOFS
104:    add      t41 <- t39, t40
105:    add      t42 <- p, t41
106:    mul      t43 <- @t38, @t42
107:    if      v > t43 goto 45_if_true
108:    goto   46_if_false
109: 45_if_true:
110:    add      t44 <- psqrt, 1
111:    assign psqrt <- t44
112:    if      psqrt >= pidx goto 50_if_true
113:    goto   51_if_false
114: 50_if_true:
115:    &()      t45 <- _str_4
116:    param 0 <- t45
117:    call   WriteStr
118:    assign n <- 0
119:    goto   49
120: 51_if_false:
121: 49:
122:    goto   44
123: 46_if_false:
124: 44:
125:    goto   15_while_cond
126: 14:
127:    &()      t46 <- _str_5
128:    param 0 <- t46
129:    call   WriteStr
130:    param 0 <- pidx
131:    call   WriteInt
132:    &()      t47 <- _str_6
133:    param 0 <- t47
134:    call   WriteStr
135:    call   WriteLn
136:    return pidx

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```

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

```