

```

gcd
0:      &()      *t0 <- &_str_3
1:      param  0 <- t0
2:      call   WriteStr
3:      call   WriteLn
4:      call   WriteLn
5:      &()      *t1 <- &n
6:      param  0 <- t1
7:      call   ReadNumbers
8:      &()      *t2 <- &_str_4
9:      param  0 <- t2
10:     call   WriteStr
11:     &()      *t3 <- &n
12:     param  0 <- t3
13:     call   t4 <- gcd_iter
14:     param  0 <- t4
15:     call   WriteInt
16:     call   WriteLn
17:     &()      *t5 <- &_str_5
18:     param  0 <- t5
19:     call   WriteStr
20:     &()      *t6 <- &n
21:     param  0 <- t6
22:     call   t7 <- gcd_mod
23:     param  0 <- t7
24:     call   WriteInt
25:     call   WriteLn
26:     &()      *t8 <- &_str_6
27:     param  0 <- t8
28:     call   WriteStr
29:     &()      *t9 <- &n
30:     param  0 <- t9
31:     call   t10 <- gcd_rec
32:     param  0 <- t10
33:     call   WriteInt
34:     call   WriteLn

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```

gcd_iter
0: 1_while_cond:
1:   assign t11 <- 0
2:   param  0 <- a
3:   call   t12 <- DOFS
4:   add    t13 <- 0, t12
5:   add    t14 <- a, t13
6:   assign t15 <- 4
7:   param  0 <- a
8:   call   t16 <- DOFS
9:   add    t17 <- 4, t16
10:  add    t18 <- a, t17
11:  if     @t14 # @t18 goto 2_while_body
12:  goto   0
13: 2_while_body:
14:  assign t19 <- 0
15:  param  0 <- a
16:  call   t20 <- DOFS
17:  add    t21 <- 0, t20
18:  add    t22 <- a, t21
19:  assign t23 <- 4
20:  param  0 <- a
21:  call   t24 <- DOFS
22:  add    t25 <- 4, t24
23:  add    t26 <- a, t25
24:  if     @t22 > @t26 goto 5_if_true
25:  goto   6_if_false
26: 5_if_true:
27:  assign t27 <- 0
28:  param  0 <- a
29:  call   t28 <- DOFS
30:  add    t29 <- 0, t28
31:  add    t30 <- a, t29
32:  assign t31 <- 4
33:  param  0 <- a
34:  call   t32 <- DOFS
35:  add    t33 <- 4, t32
36:  add    t34 <- a, t33
37:  sub    t35 <- @t30, @t34
38:  assign t36 <- 0
39:  param  0 <- a
40:  call   t37 <- DOFS
41:  add    t38 <- 0, t37
42:  add    t39 <- a, t38
43:  assign @t39 <- t35 // *t39 = &a
44:  goto   4
45: 6_if_false:
46:  assign t40 <- 4
47:  param  0 <- a
48:  call   t41 <- DOFS
49:  add    t42 <- 4, t41
50:  add    t43 <- a, t42
51:  assign t44 <- 0
52:  param  0 <- a
53:  call   t45 <- DOFS
54:  add    t46 <- 0, t45
55:  add    t47 <- a, t46
56:  sub    t48 <- @t43, @t47
57:  assign t49 <- 4
58:  param  0 <- a
59:  call   t50 <- DOFS
60:  add    t51 <- 4, t50
61:  add    t52 <- a, t51
62:  assign @t52 <- t48 // *t52 = &a
63: 4:
64:  goto   1_while_cond
65: 0:
66:  assign t53 <- 0
67:  param  0 <- a
68:  call   t54 <- DOFS
69:  add    t55 <- 0, t54
70:  add    t56 <- a, t55
71:  return @t56

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```

gcd_mod
0: 1_while_cond:
1:   assign t11 <- 4
2:   param  0 <- a
3:   call   t12 <- DOFS
4:   add    t13 <- 4, t12
5:   add    t14 <- a, t13
6:   if     @t14 # 0 goto 2_while_body
7:   goto   0
8: 2_while_body:
9:   assign t15 <- 4
10:  param  0 <- a
11:  call   t16 <- DOFS
12:  add    t17 <- 4, t16
13:  add    t18 <- a, t17
14:  assign t  <- @t18
15:  assign t19 <- 0
16:  param  0 <- a
17:  call   t20 <- DOFS
18:  add    t21 <- 0, t20
19:  add    t22 <- a, t21
20:  assign t23 <- 0
21:  param  0 <- a
22:  call   t24 <- DOFS
23:  add    t25 <- 0, t24
24:  add    t26 <- a, t25
25:  div    t27 <- @t26, t18
26:  mul    t28 <- t27, t18
27:  sub    t29 <- @t22, t28
28:  assign t30 <- 4
29:  param  0 <- a
30:  call   t31 <- DOFS
31:  add    t32 <- 4, t31
32:  add    t33 <- a, t32
33:  assign @t33 <- t29 // *t33 = &a
34:  assign t34 <- 0
35:  param  0 <- a
36:  call   t35 <- DOFS
37:  add    t36 <- 0, t35
38:  add    t37 <- a, t36
39:  assign @t37 <- t18 // *t37 = &a
40:  goto   1_while_cond
41: 0:
42:  assign t38 <- 0
43:  param  0 <- a
44:  call   t39 <- DOFS
45:  add    t40 <- 0, t39
46:  add    t41 <- a, t40
47:  return @t41

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```

gcd_rec
0:   assign t11 <- 4
1:   param  0 <- a
2:   call   t12 <- DOFS
3:   add    t13 <- 4, t12
4:   add    t14 <- a, t13
5:   if     @t14 = 0 goto 1_if_true
6:   goto   2_if_false
7: 1_if_true:
8:   assign t15 <- 0
9:   param  0 <- a
10:  call   t16 <- DOFS
11:  add    t17 <- 0, t16
12:  add    t18 <- a, t17
13:  return @t18
14:  goto   0
15: 2_if_false:
16:  assign t19 <- 0
17:  param  0 <- a
18:  call   t20 <- DOFS
19:  add    t21 <- 0, t20
20:  add    t22 <- a, t21
21:  assign t  <- @t22
22:  assign t23 <- 4
23:  param  0 <- a
24:  call   t24 <- DOFS
25:  add    t25 <- 4, t24
26:  add    t26 <- a, t25
27:  assign t27 <- 0
28:  param  0 <- a
29:  call   t28 <- DOFS
30:  add    t29 <- 0, t28
31:  add    t30 <- a, t29
32:  assign @t30 <- @t26 // *t30 = &a
33:  assign t31 <- 4
34:  param  0 <- a
35:  call   t32 <- DOFS
36:  add    t33 <- 4, t32
37:  add    t34 <- a, t33
38:  div    t35 <- t22, @t34
39:  assign t36 <- 4
40:  param  0 <- a
41:  call   t37 <- DOFS
42:  add    t38 <- 4, t37
43:  add    t39 <- a, t38
44:  mul    t40 <- t35, @t39
45:  sub    t41 <- t22, t40
46:  assign t42 <- 4
47:  param  0 <- a
48:  call   t43 <- DOFS
49:  add    t44 <- 4, t43
50:  add    t45 <- a, t44
51:  assign @t45 <- t41 // *t45 = &a
52:  param  0 <- a
53:  call   t46 <- gcd_rec
54:  return t46
55: 0:

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```

ReadNumbers
0:      &()      *t11 <- &_str_1
1:      param  0 <- t11
2:      call   WriteStr
3:      call   t12 <- ReadInt
4:      assign t13 <- 0
5:      param  0 <- n
6:      call   t14 <- DOFS
7:      add    t15 <- 0, t14
8:      add    t16 <- n, t15
9:      assign @t16 <- t12 // *t16 = &n
10:     &()      *t17 <- &_str_2
11:     param  0 <- t17
12:     call   WriteStr
13:     call   t18 <- ReadInt
14:     assign t19 <- 4
15:     param  0 <- n
16:     call   t20 <- DOFS
17:     add    t21 <- 4, t20
18:     add    t22 <- n, t21
19:     assign @t22 <- t18 // *t22 = &n

```