

```

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

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```

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

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```

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

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```

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

```