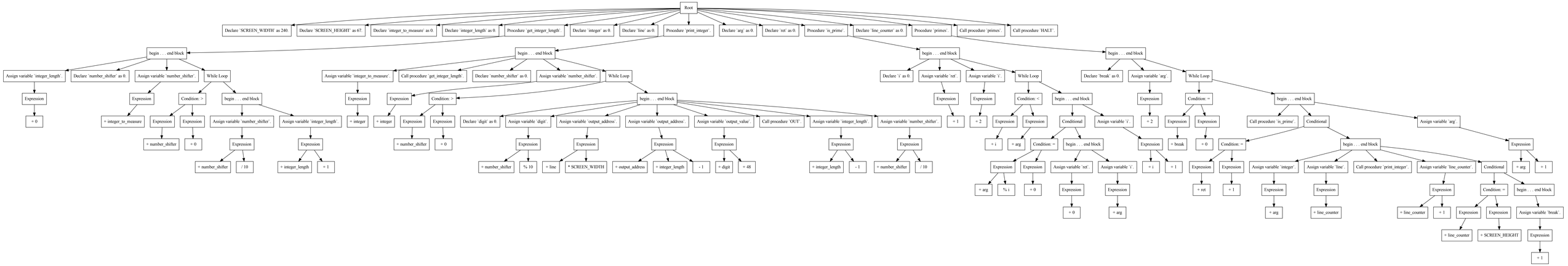
Root
Declare `SCREEN_WIDTH` as 240.
Declare `SCREEN_HEIGHT` as 67.
Declare `integer_to_measure` as 0.
Declare `integer_length` as 0.
Procedure `get_integer_length`.
Declare `integer` as 0.
Declare `line` as 0.
Procedure `print_integer`.
Declare `arg` as 0.
Declare `ret` as 0.
Procedure `is_prime`.
Declare `line_counter` as 0.
Procedure `primes`.
Call procedure `primes`.
Call procedure `HALT`.
begin . . . end block
Assign variable `integer_length`.
Expression
+ 0
Declare `number_shifter` as 0.
Assign variable `number_shifter`.
Expression
+ integer_to_measure
While Loop
Condition: >
Expression
+ number_shifter
Expression
+ 0
begin . . . end block
Assign variable `number_shifter`.
Expression
+ number_shifter
/ 10
Assign variable `integer_length`.
Expression
+ integer_length
+ 1
begin . . . end block
Assign variable `integer_to_measure`.
Expression
+ integer
Call procedure `get_integer_length`.
Expression
+ integer
Condition: >
Expression
+ number_shifter
Expression
+ 0
Declare `number_shifter` as 0.
Assign variable `number_shifter`.
While Loop
begin . . . end block
Declare `digit` as 0.
Assign variable `digit`.
Expression
+ number_shifter
% 10
Assign variable `output_address`.
Expression
+ line
* SCREEN_WIDTH
Assign variable `output_address`.
Expression
+ output_address
+ integer_length
- 1
Assign variable `output_value`.
Expression
+ digit
+ 48
Call procedure `OUT`.
Assign variable `integer_length`.
Expression
+ integer_length
- 1
Assign variable `number_shifter`.
Expression
+ number_shifter
/ 10
begin . . . end block
Declare `i` as 0.
Assign variable `ret`.
Expression
+ 1
Assign variable `i`.
Expression
+ 2
While Loop
Condition: <
Expression
+ i
Expression
+ arg
begin . . . end block
Conditional
Condition: =
Expression
+ arg
Expression
% i
Expression
+ 0
begin . . . end block
Assign variable `ret`.
Expression
+ 0
Assign variable `i`.
Expression
+ arg
Assign variable `i`.
Expression
+ i
+ 1
begin . . . end block
Declare `break` as 0.
Assign variable `arg`.
Expression
+ 2
While Loop
Condition: =
Expression
+ break
Expression
+ 0
begin . . . end block
Call procedure `is_prime`.
Conditional
Condition: =
Expression
+ ret
Expression
+ 1
begin . . . end block
Assign variable `integer`.
Expression
+ arg
Assign variable `line`.
Expression
+ line_counter
Call procedure `print_integer`.
Assign variable `line_counter`.
Expression
+ line_counter
+ 1
Conditional
Condition: =
Expression
+ line_counter
Expression
+ SCREEN_HEIGHT
begin . . . end block
Assign variable `break`.
Expression
+ 1
Assign variable `arg`.
Expression
+ arg
+ 1