g_p_font_digit (5x8 array)	Value (Binary)
FONT_DIGIT_0	B01110, B10001, B10011, B10010, B10001, B10001, B10001, B01110
FONT_DIGIT_1	B00100, B01100, B10100, B00100, B00100, B00100, B00100, B11111
FONT_DIGIT_2	B01110, B10001, B00001, B00010, B00100, B01000, B10000, B11111
FONT_DIGIT_3	B01110, B10001, B00001, B00110, B00001, B00001, B10001, B01110
FONT_DIGIT_4	B10001, B10001, B10001, B11111, B00001, B00001, B00001,
FONT_DIGIT_5	B1111, B10000, B10000, B11110, B00001, B00001, B11110
FONT_DIGIT_6	B0111, B10000, B10000, B11111, B10001, B10001, B10001, B01110
FONT_DIGIT_7	B11111, B00001, B00001, B00100, B00100, B00100, B00100,
FONT_DIGIT_8	B01110, B10001, B10001, B01110, B10001, B10001, B10001, B01110
FONT_DIGIT_9	B01110, B10001, B10001, B11111, B00001, B00001, B10001, B01110



SOFTWARE ARCHITECTURE

MAIN

CCLOCK

CLOCK

DISPLAY

GLOBAL

GLOBAL

GLOBAL

GLOBAL

GLOBAL

boolean GLOBAL

LEDMATRIX

g_cycle_1s_count

g_1s_signal

g_increase_signal

g_clock_second

g_clock_minute g_clock_hour

g_clock_day

Constant	Value
CYCLE_1S_WAIT	3
DIRECTION_INCREASE	true
DIRECTION_DECREASE	false
MAX_VALUE_SECOND	59
MAX_VALUE_MINUTE	59
MAX_VALUE_HOUR	23
MAX_VALUE_DAY_28	28
MAX_VALUE_DAY_29	29
MAX_VALUE_DAY_30	30
MAX_VALUE_DAY_31	31
MAX_VALUE_MONTH	12
MAX_VALUE_YEAR	9999

30

DEFAULT_MINUTE

DEFAULT_HOUR DEFAULT_DAY

DEFAULT_MONTH

DEFAULT_YEAR 2024

Constant	
COLOR_DEFAULT	•
COLOR_BACKGROUND	
FONT_WIDTH	
FONT_HEIGHT	
NUMBER_WIDTH_2	
NUMBER WIDTH 4	

9	
Constant	Value
COLOR_DEFAULT	0xFFFF00
COLOR_BACKGROUND	OxO
FONT_WIDTH	5
FONT_HEIGHT	8
NUMBER_WIDTH_2	2
NUMBER WIDTH 4	4

g_clock	_month			GLOBAL	
g_cloc	k_year			GLOBAL	Ī
g_p_for	nt_digit	cc	nst pointer	GLOBAL	Ī
	Constant		Value		
	POS_SS_X		1		
	POS_SS_Y		1		
	POS_MI_X		16		
00	POS_MI_Y		1		
	POS_HH_X		31		
	POS_HH_Y		1		
	POS_DD_X		1		
-	POS_DD_Y		13		

POS_MO_X

13

POS_MO_Y POS_YY_X

POS_YY_Y









