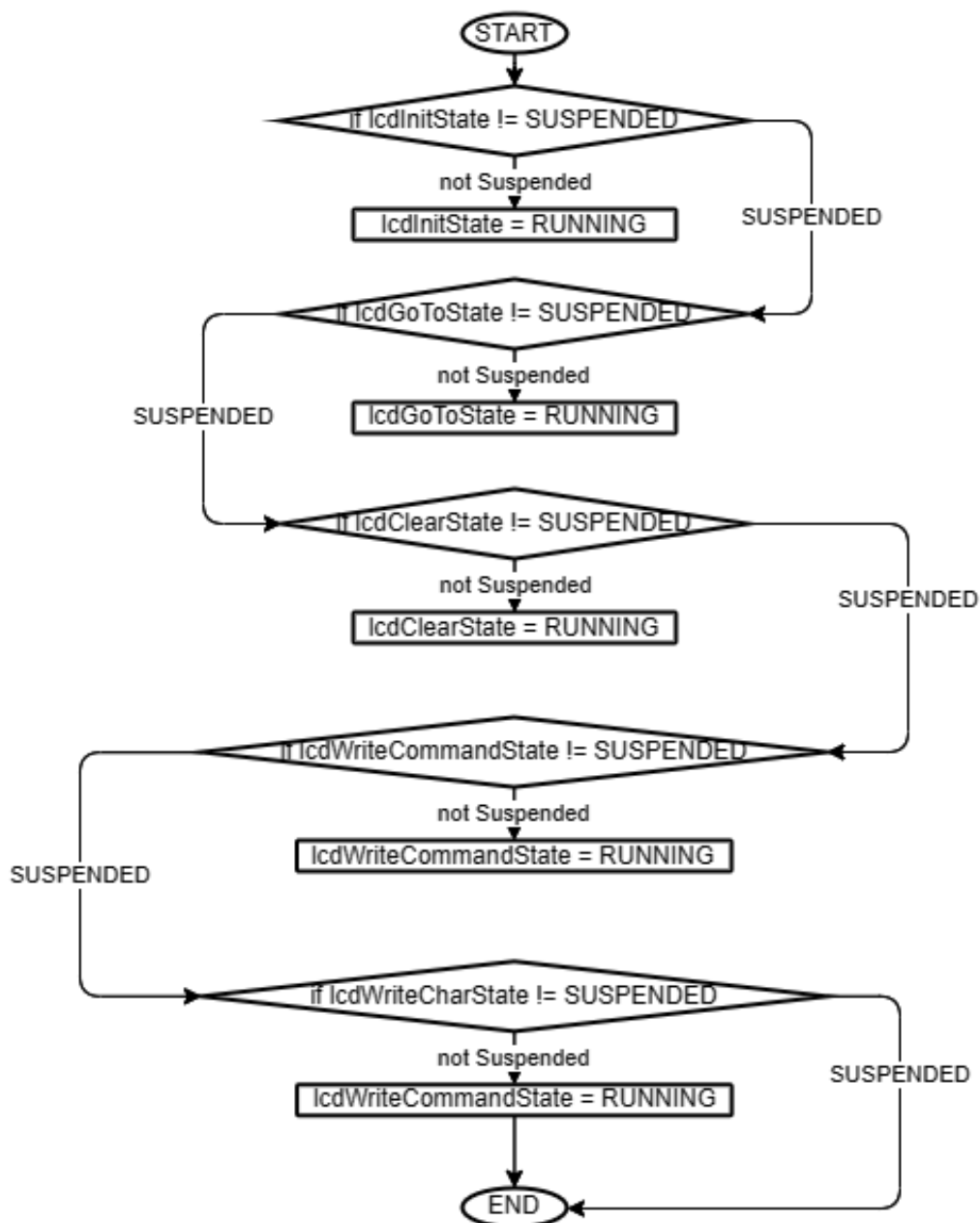


LCD & KEYPAD DESIGN

In this document, you will find flowchart designs for the functions of LCD and keypad which are unblocking functions.

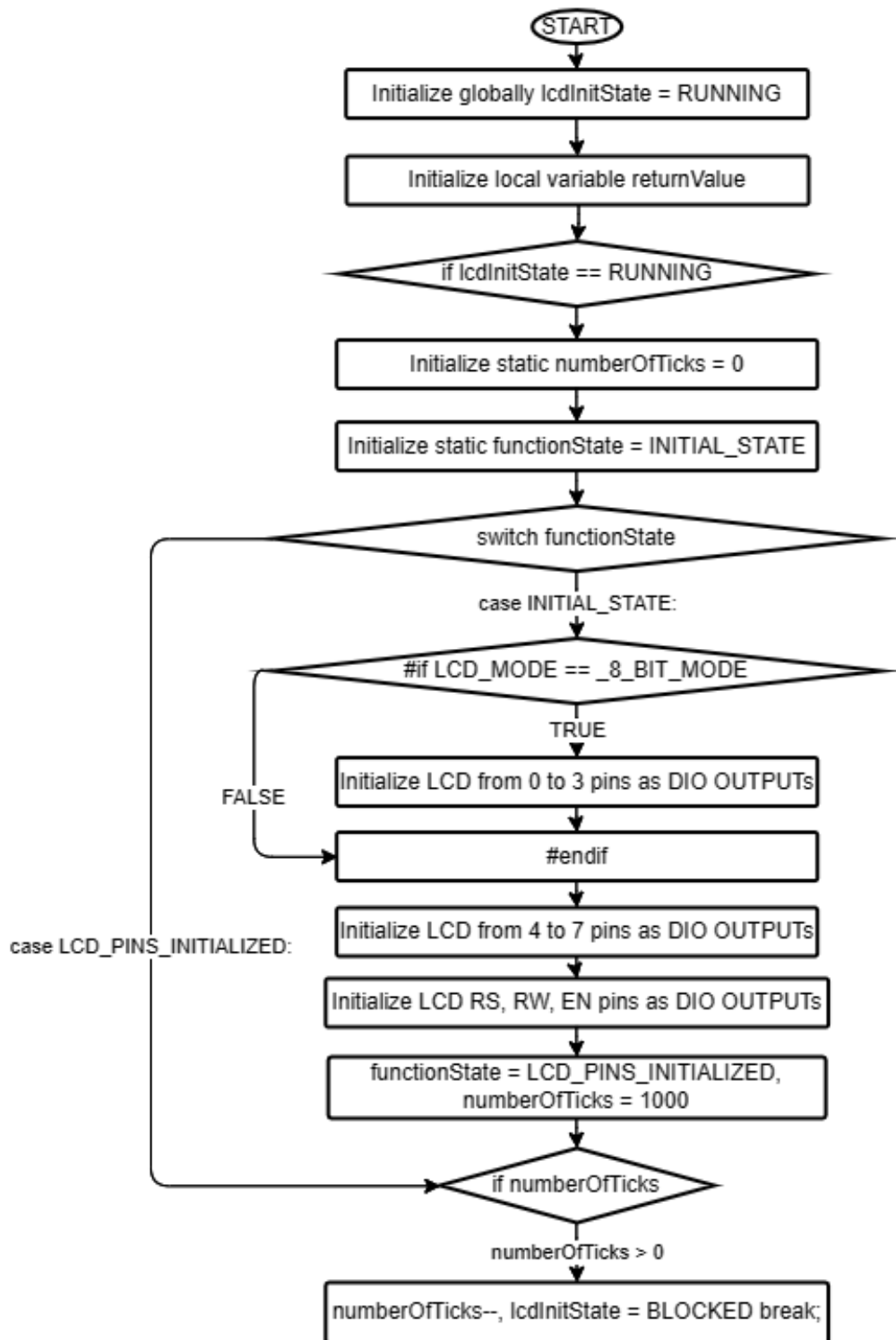
So first I'll show what will be inside timer call back function in case if I'm working with LCD.

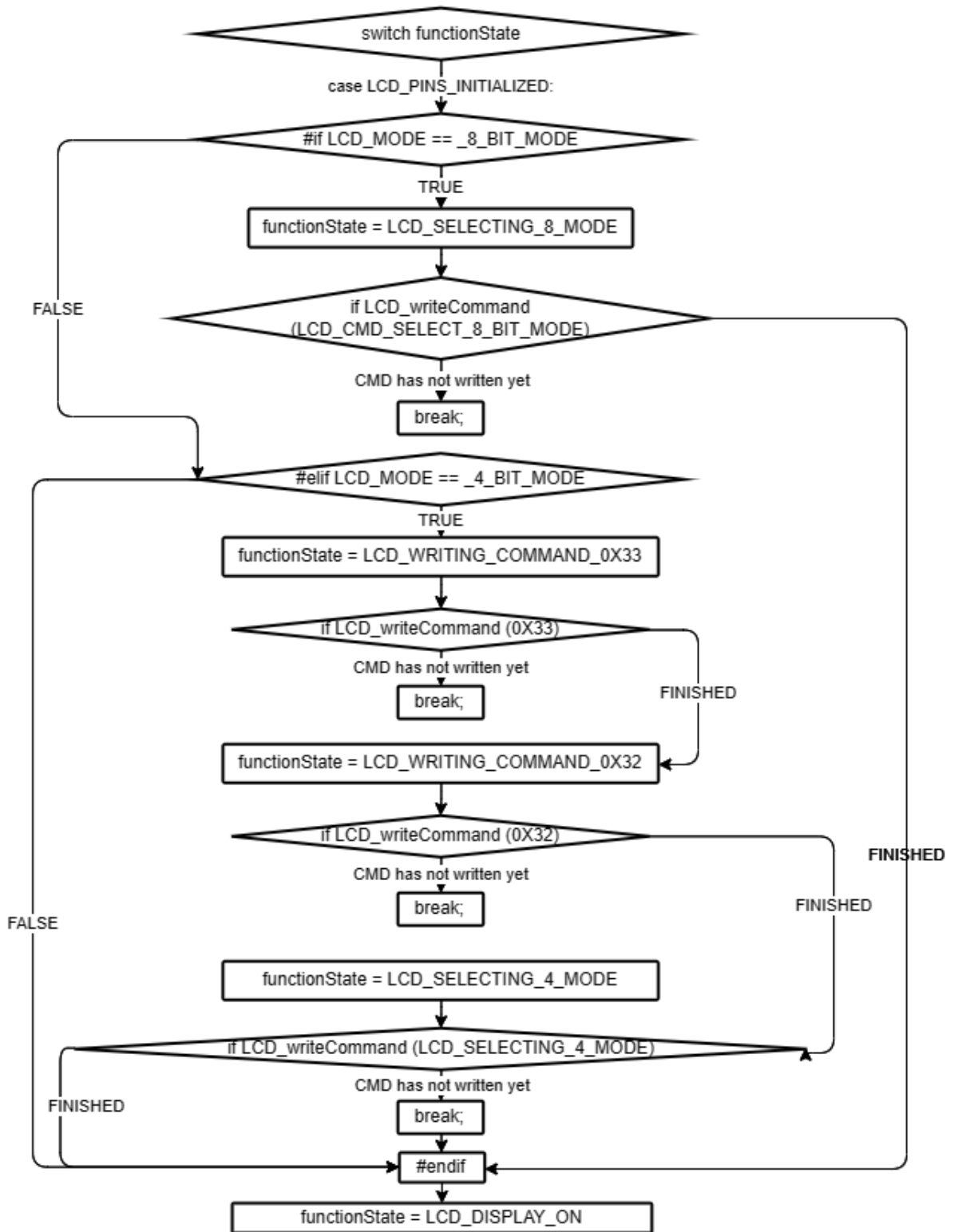
Inside timer interrupt call back function



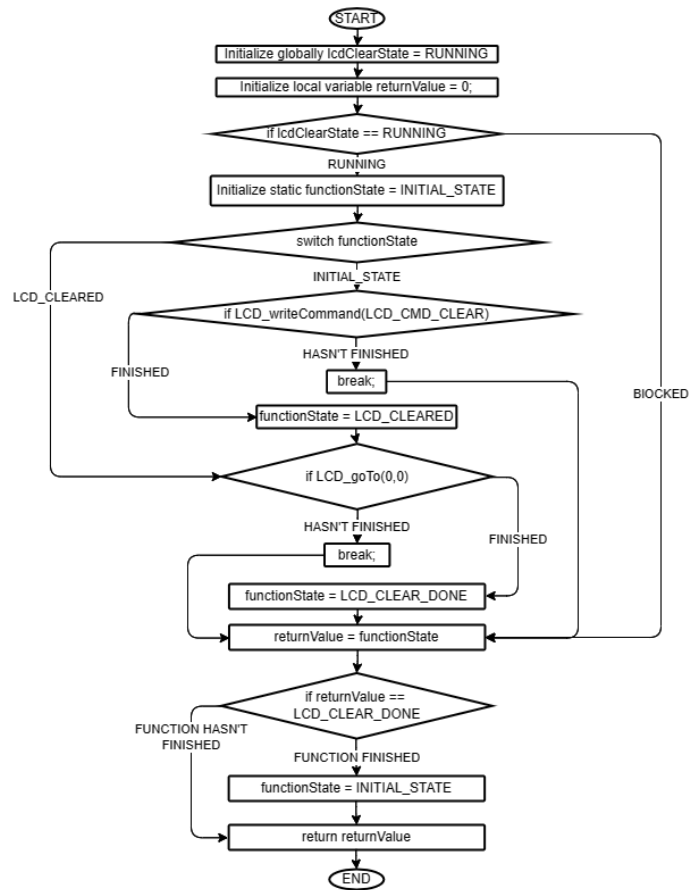
1. LCD flowcharts

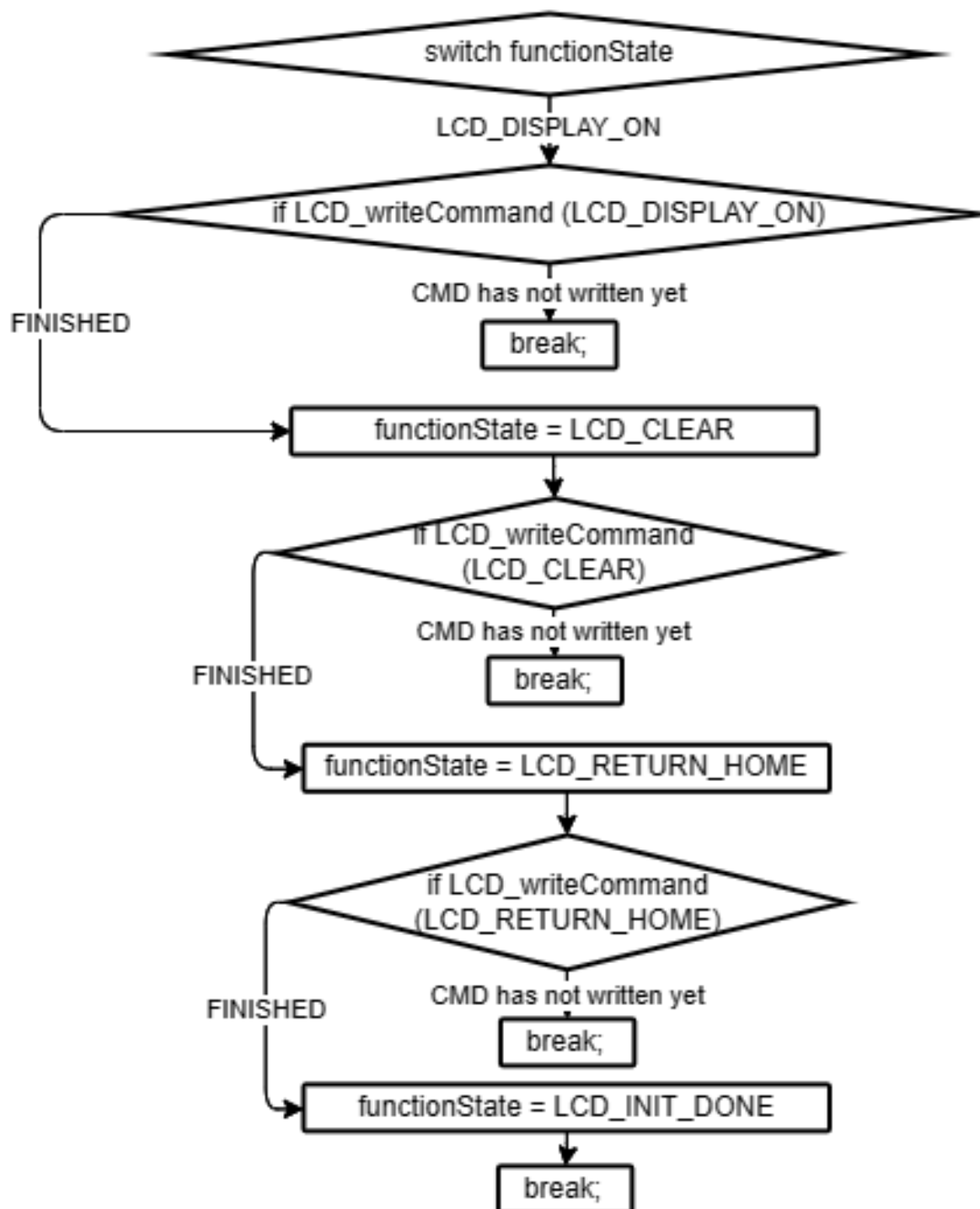
Then we have here **LCD_init**



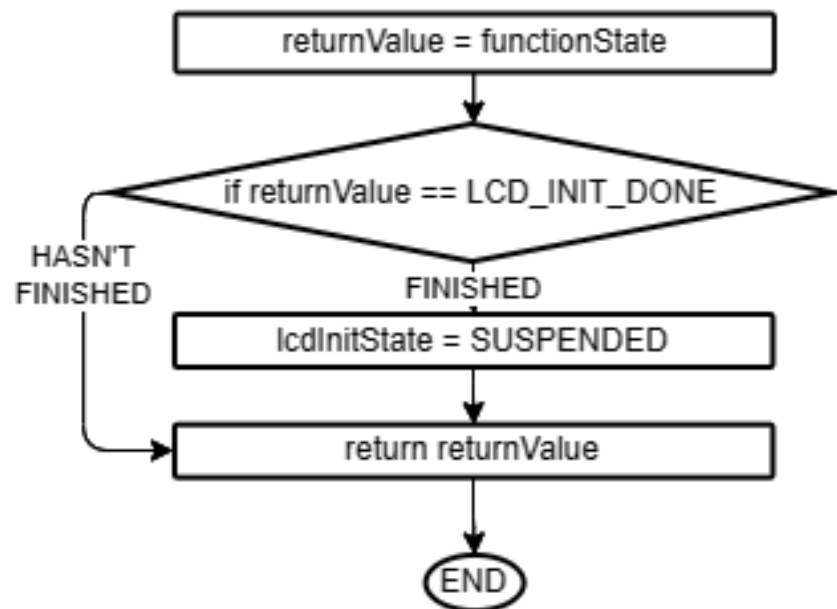


en_lcdError_t LCD_clear (void)

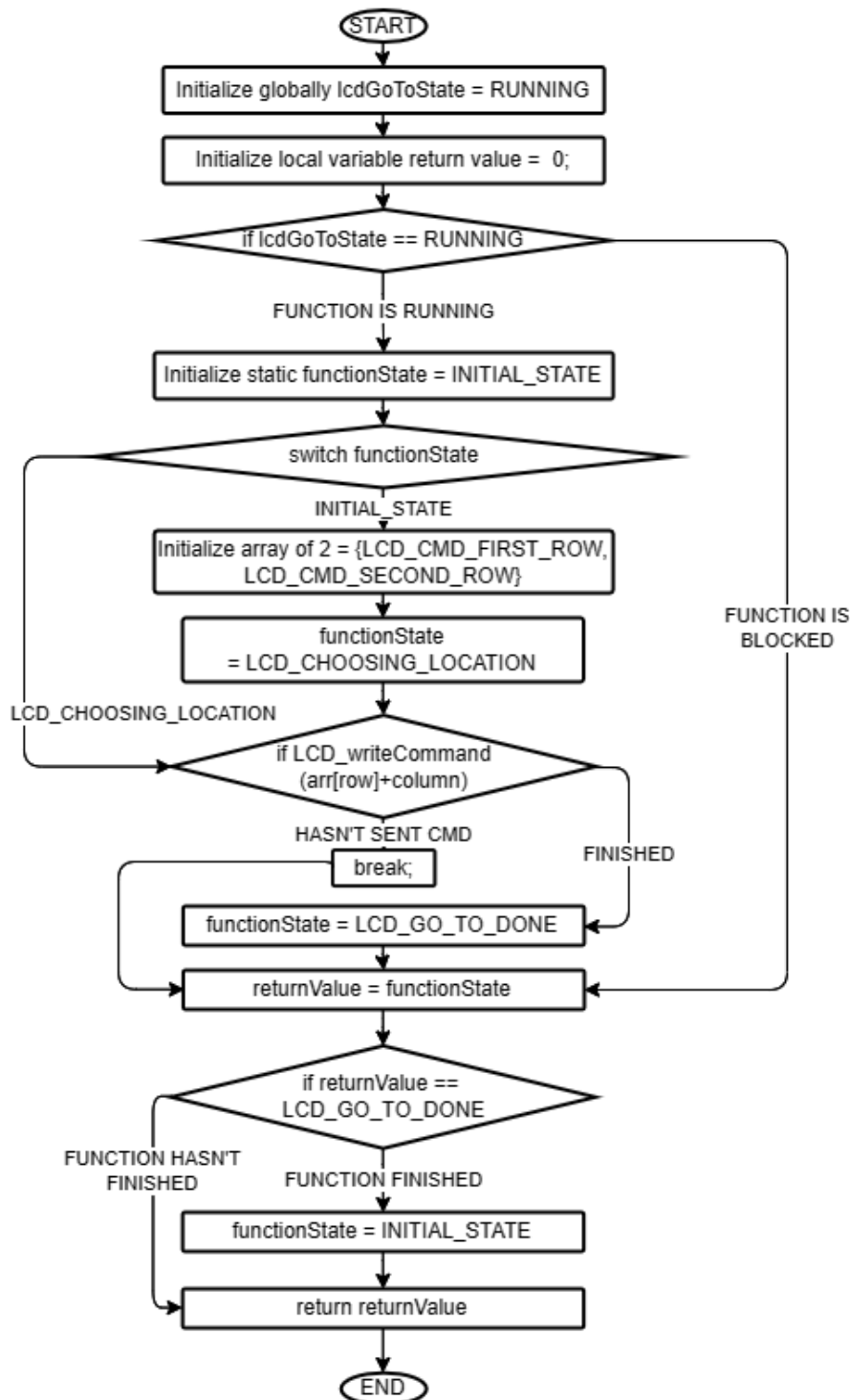




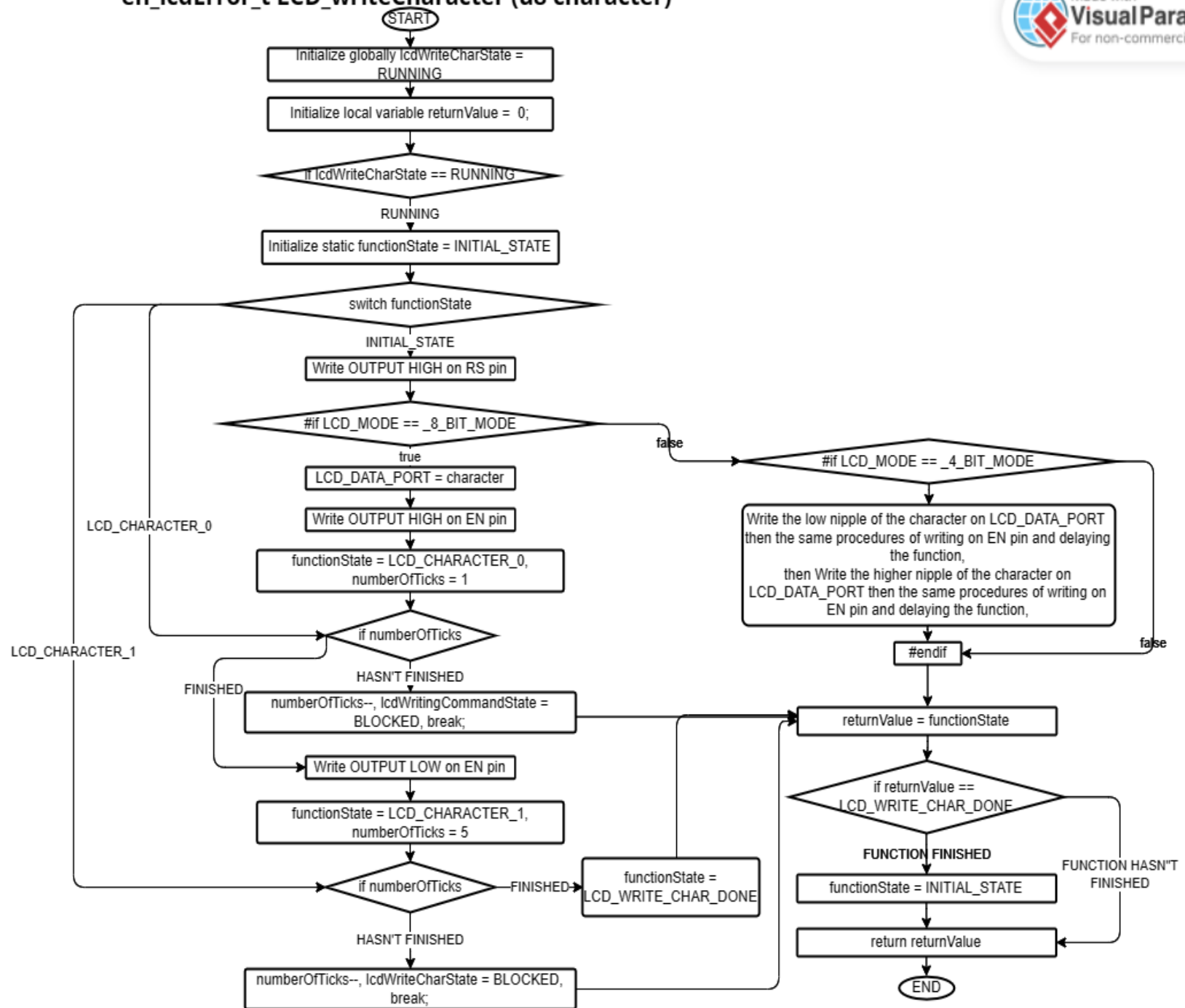
After exiting switch case



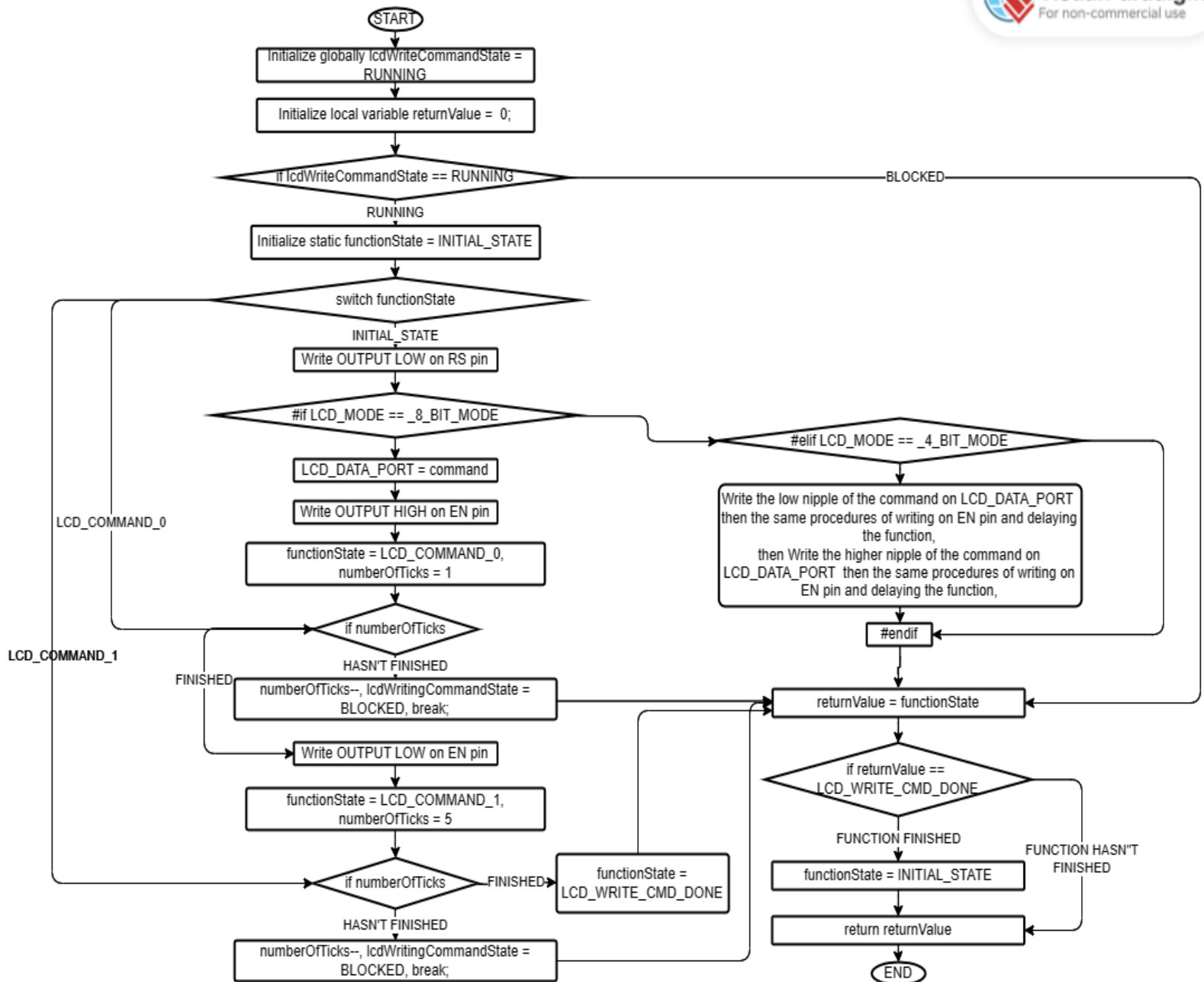
en_lcdError_t LCD_goTo (u8 rowNumber, u8 columnNumber)



en_lcdError_t LCD_writeCharacter (u8 character)

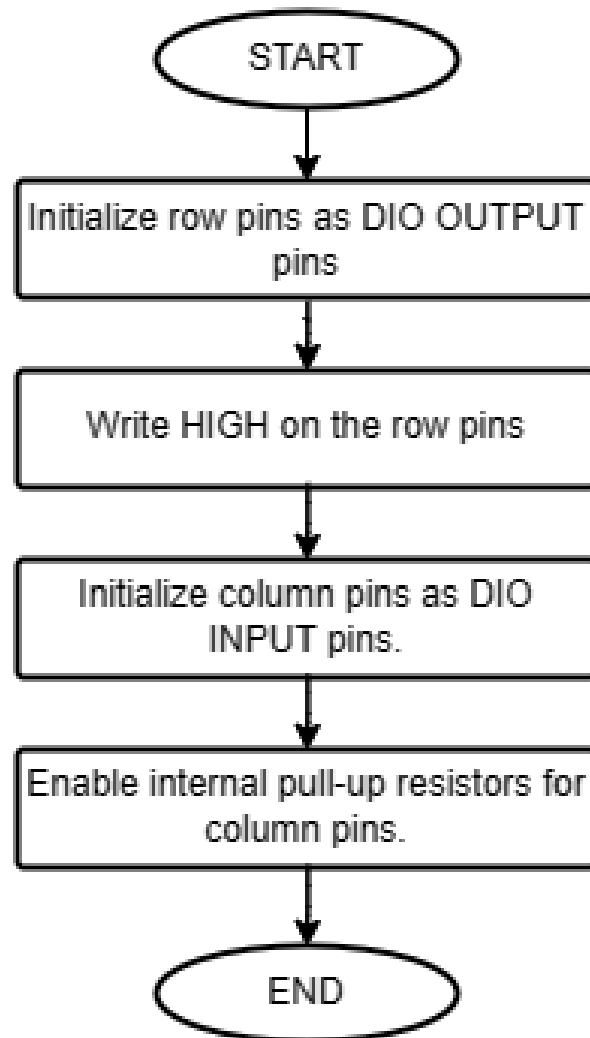


en_lcdError_t LCD_writeCommand (u8 command)



2. KEYPAD flowcharts

void KEYPAD_init (void)



u8 KEYPAD_read (u8* keypadPressed)

IMPORTANT NOTE: Initialize volatile variable keypadReadState = RUNNING, and at the beginning of every state change it to BLOCKED and after reentering the function check on the state of the function and finally it is only changed when the timer interrupts the system to RUNNING

