8.4 Exercise: Display String

The display string routine should include:

- a proper header, as usual
- an indirect load of the character to be printed, using the X index register as a pointer
- a test for the null character that causes the routine to exit when it is detected
- a subroutine call to the write character display routine
- an instruction to increment the string pointer (the X index register)

The code to write a string to the display would look something like this:

TESTMESSAGE FCC 'Hi There!' ; The message

FCB 00 ; The message terminator

LDX #TESTMESSAGE ; Initializing the pointer into the message

JSR DISPLAYSTRING ; Write the string

SWI ; Break to the monitor

followed by the code for the display string and display character subroutines:

LDX #TESTMESSAGE JSR DISPLAYSTRING

LDAA #'A' ; Display A

JSR DISPLAYCHAR

del 50us: PSHX ;2 E-clk eloop: LDX #30 :2 E-clk iloop: **PSHA** ;2 E-clk | **PULA** ;3 E-clk | **PSHA** ;2 E-clk | 50us **PULA** ;3 E-clk | **NOP** ;1 E-clk | **NOP** ;1 E-clk | ;3 E-clk -DBNE X,iloop **RTS** ;5 E-clk