/\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Project 6 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\*

\* File: LCDlib.h

\* Author: Seth Cram

\* Date: 10/12/2021

\*

\*/

//?should turn macros into global consts?

/\* Software timer const \*/

#define COUNTS\_PER\_MS 8889

//consts for data and instr register:

#define IR 0

#define DR 1

//LCD screen consts:

#define LINE\_1\_START 0x00

#define LINE\_1\_END 0x0F

#define LINE\_2\_START 0x40

#define LINE\_2\_END 0x4F

//const for changing the LCD address/cursor location:

#define DDRAM\_CNTRL\_BIT 0x80

/\* Function Prototypes \*/

void system\_init (void); /\* hardware initialization \*/

void initPMP();

void initLCD();

void clearLCD();

int busyLCD();

void writeLCD(int addr, char c);

char readLCD(int addr);

void LCD\_puts(char \*char\_string);

void LCD\_putc( char currChar );

void LCD\_delay(unsigned int mS);