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/*
* Title: gpio.h
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* Lab: ENEL 387-091
#include "stm32f10x.h"
#include <stdint.h>
#include <stdbool.h>
//Retrieves the states of the four DIP switches
//Bits are ordered from left to right to match DIP switch
uint16 t getBits SW(void);
//Retrieves the states of the four push buttons
//Bits are ordered left to right to match PB's meaning...
//
        RED_PB = Bit 3
        BLACK_PB = Bit 2
//
        BLUE PB = Bit 1
//
//
        GREEN PB = Bit 0
uint16 t getBits PB(void);
uint8_t getUSER_PB(void);
//Sets the bits of the LED's
//Parameters: unint32_t (the bits for the desired LED states)
void setBits_LED(uint32_t);
void setBlueLED(uint32_t ledState);
void setGreenLED(uint32 t ledState);
//Configures a specific pin on a specific port for input
//Returns true if successful, returns false if port/pin combo was bad
//Parameters: char (the letter corresponding to the port)
                    int (the number corresponing to the pin)
bool configGPIO_Input(char, int);
//Configures a specific pin on a specific port for output
//Returns true if successful, returns false if port/pin combo was bad
//Parameters: char (the letter corresponding to the port)
                    int (the number corresponing to the pin)
//
bool configGPIO_Output(char, int);
bool configGPIO AnalogIn(char, int);
bool configAFIO_Output(char, int);
```