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/*****
 * Name:      GPIO.h
 * Description: STM32 GPIO on the ARM Cortex M3
 * Version: V1.00
 * Authors: Li Pan
 *
 *****/
#include <stdint.h>

uint16_t read_dip(void);
uint16_t read_bu(void);
uint16_t read_SW(void);
void led_enable(void);
void led_IO_GPIOA(void);
void LED_WigWag(void);

uint32_t read_LSensor(void); //check the output for left sensor
uint32_t read_RSensor(void); //check the output for right sensor

void LED(void); //initial the signal lights
void LEFT_LED(void); //turn on the left signal light
void RIGHT_LED(void); //turn on the right signal light
void NO_TURN(void); //turn off the signal lights
void STOP(void); //turn on all signal lights

```