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#include <stdint.h>

#include "eecs388_lib.h"

/*
    Task 2.1: Review eeecs388_lib.h and eeecs388_lib.c

    Task 2.2: Implement RGB blinky.

    - set red, green, and blue LEDs for output mode, using the gpio_mode() function
    - in the main loop, turn on/off a different LED at each iteration.
      for example,
      at 1st iteration
        turn on RED led
        delay 500 ms
        turn off RED led
        delay 300 ms.
      at 2nd iteration
        do the same but for GREEN led
      at 3rd iteration
        do the same but for BLUE led
      at 4th iteration
        back to RED led.
      ...
    - You must use array and modulo (%) operator to change the color.

    Task 2.3. Implement RGBA (bonus: +1 point)
    - rotate red, green, blue, and white (all LEDs are enabled) colors.
*/

int main()
{
    int gpio[3] = {RED_LED, GREEN_LED, BLUE_LED};

    gpio_mode(gpio[0], OUTPUT);
    gpio_mode(gpio[1], OUTPUT);
    gpio_mode(gpio[2], OUTPUT);

    int i = 0;

    while(1)
    {
        gpio_write(gpio[i % 3], ON);
        delay(500);
        gpio_write(gpio[i % 3], OFF);
        delay(300);

        if (i % 3 == 2) {
            gpio_write(gpio[0], ON);
            gpio_write(gpio[1], ON);
            gpio_write(gpio[2], ON);
            delay(500);
            gpio_write(gpio[0], OFF);
            gpio_write(gpio[1], OFF);
            gpio_write(gpio[2], OFF);
            delay(300);
        };

        i++;
    }
}

```

} }