```
#include "eecs388 lib.h"
   task 1.4: build and deploy/upload the code as is
   task 1.5: try out debugging. See lab sheet.
   task 2.1: review the files eecs388_lib.h and eecs388_lib.c.
             on vscode, it will usually be on the file browser pane on the left
   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.
    - for extra marks, modify your code so that it also flashes the WHITE color
      so sequence would be something like this: RED -> BLUE -> GREEN -> WHITE
int main() {
   // GREEN LED is a macro.
     It is essentially a placeholder that is replaced by the compiler during
compilation into the correct pin number
   // To see the actual pin numbers, look for GREEN_LED (or the other colors) in the
eecs388 lib.h file
   // redeclared variables to R representing the RED_LED macro
   // G representing the GREEN LED macro
   // B representing the BLUE_LED macro
   int R = RED LED;
   int G = GREEN_LED;
   int B = BLUE LED;
   // this function sets the pin referred to by the variable gpio to act as an OUTPUT
pin, i.e. send signals out of it
   // called the functions again to set the other pins to output mode
   gpio_mode(R, OUTPUT);
   gpio_mode(G, OUTPUT);
   gpio_mode(B, OUTPUT);
   // your code will need to be inside this while loop
   // but feel free to do it any other way if you like. As long the expected behaviour
is present, you will be credited
   while (1) {
      // the gpio_write() function sets a pin (referred to by gpio in this case) to the
logic high or ON state.
      gpio_write(R, ON);
      // you could also think of it as switching on a pin so that it's now sending out a
      // this function asks the processor to just do nothing and wait for 1000
milliseconds (1 sec)
      delay(500);
      // same as before, but this time we are setting the pin to logi low or OFF state.
Same as turning the pin off
     gpio_write(R, OFF);
      delay(300);
      // the write function will take the green macro as the first parameter and the ON
macro as the second parameter
      gpio_write(G, ON);
      // the delay function takes a millisecond of type integer as the single parameter
      delay(500);
      // the write function will take the green macro as the first parameter and the OFF
macro as the second parameter
      gpio write(G, OFF);
      // delay function takes a millisecond of type integer as the single parameter
      delay(300);
      // same thing with the blue LED and RED LED
      gpio write(B, ON);
      delay(500);
      gpio_write(B, OFF);
      delay(300);
      gpio_write(R, ON);
   }
}
/*
   - the main function is the entry point of the program
   - we first initialize the variables R, G, and B to the RED_LED, GREEN_LED, and
BLUE_LED macros respectively
   - the gpio mode() function is used to set the pin to either input or output mode
   - in our case we are setting the pin to output mode which will allow the pin to send
signals to the HiFivel Microcontroller
   - the parameter values R, B, and G are the pin numbers
   - gpio stands for general purpose input output
   - then we call a while loop which will iterate indefinitely
   - and we call the following functions 3 times each for each LED
   - gpio_write function is used to set the pin to either high or low voltage
   - the parameter values R, B, and G are the pin numbers
   - the parameter values ON and OFF are the state variables which represent high
voltage as 1 or low voltage as 0
   gpio_mode() function
   (if R then the pin is the RED_LED macro at position 22)
   (if B then the pin is the RED_LED macro at position 21)
   (if G then the pin is the RED_LED macro at position 19)
   - the first parameter value is the pin number
   - the second parameter value is the output/input value which is defined in the header
file as a macro as either 0 or 1
   - 0 represents input mode which will allow the pin to recieve singals from this
device to the board
   - 1 represents output mode which will allow the pin to send signals to the board
   - this function in general will set the pin to either recieve or send signals
```

#include <stdint.h>