Module assignment list		教学模块任务列表
IAR Introduction	Marks(分)	IAR简介
Add the variable "u32Counter" to main, initialize to 0, increment it, and set a break point		添加变量"u32Counter",初始化为0,自动增加计数,并在计数
where it increments.	5	增加的地方设置一个断点。
Show how many instruction cycles each loop iteration takes	5	显示循环指令周期数
Firmware System Introduction	Marks(分)	固件系统简介
Explain the main loop rule	1	解释主循环规则
BEFORE YOUR WRITE ANY CODE, draw a picture or flowchart of the assignment's designs.	5	在你动手写任何代码之前,一定要根据你的作业画出流程图
Start blinking at 1.024Hz and double the blinking rate every 2 seconds until it appears solid.	2	以1.024hz的频率开始闪烁,然后每2秒加倍闪烁直至显示为常
Reduce the blinking rate back down to 1.024Hz; then back up and down forever	2	降低闪烁频率到1.024Hz,然后不停重复这个过程(上一步,即 先加倍闪烁,然后降低闪烁,然后再加倍,重复此过程)
Bonus: implement a 100Hz blink that continuously changes duty cycle every 100ms from 0 to 100 then 100 to 0 in 10% steps	+2	奖励分:实现100Hz频率闪烁,每100毫秒按10%步幅增減,从0到100,再从100到0。
LED Basic	Marks(分)	LED基础
BEFORE YOUR WRITE ANY CODE, draw a picture or flowchart of the assignment's designs.	5	在你动手写任何代码之前,一定要根据你的作业画出流程图
Create an interesting custom pattern of LEDs	3	创建一个自定义的LED图案。
Make one LED fade in and out. Do this by repeatedly stepping through LED_PWM_0 to LED_PWM_100 and back down to LED_PWM_0. Step every 40ms.	2	实现淡入淡出效果。通过每40毫秒反复从LED_PWM_0到LED_P WM_100然后返回到LED_PWM_0步进来实现这个过程
Button Interface	Marks(分)	按钮界面
BEFORE YOUR WRITE ANY CODE, draw a picture or flowchart of the assignment's designs.	5	在你动手写任何代码之前,一定要根据你的作业画出流程图
Create a password that is entered using BUTTON0, BUTTON1, and BUTTON2; press BUTTON3		创建一个用按键0到按键2的密码输入序列然后按键3为确认输入
to enter. The red LED should be on when locked. Blink red if the password is wrong, or blink	5	。当锁住时红灯亮,当密码输入错误时红灯闪烁,输入正确时
green if correct until a button is pressed. The code must support any length of password up to 10 buttons and be easily changed.		绿灯闪烁。代码必须支持由10个按键决定的任何长度的密码并 且便于修改。
If BUTTON3 is held when the board starts, enter a state where the user can create their own		
password. Blink the red and green LED during this state. When finished, go to the password	+5	当板子启动时如果按键3持续按下,进入用户密码创建界面,并 闪烁红灯和绿灯。当完成后,进入密码输入状态。
entry mode.		内殊红灯 种绿灯。
LED Advanced	Marks(分)	LED高级
BEFORE YOUR WRITE ANY CODE, draw a picture or flowchart of the assignment's designs.	5	在你动手写任何代码之前,一定要根据你的作业画出流程图
Recreate the "icicle effect" along the 8 LEDs. The leading LED is 100% bright, and the trailing ones are 70%, 50%, 30% and 10%.	5	重建8LED的"icicle"效果,第一个LED亮度100%,后面依次为70% ,50%,30%和10%。
Bonus: each change should happen faster than the last since the drop should "speed up" as it	_	
falls.	+2	奖励分:实现滴落速度越往后越快的效果。
Debug Interface	841//\	
BEFORE YOUR WRITE ANY CODE, draw a picture or flowchart of the assignment's designs.	Marks(分)	调试界面
Main and to detect any time and any the investment of the second of the investment of the second of	5	在你动手写任何代码之前,一定要根据你的作业画出流程图
Write code to detect every time your name is typed on the input and count how many times	5	在你动手写任何代码之前,一定要根据你的作业画出流程图 编写代码检测每次输入自己的姓名,并统计输入次数。你无须
it's typed. You do not need to press enter - just monitor the input buffer. Make sure the code		在你动手写任何代码之前,一定要根据你的作业画出流程图 编写代码检测每次输入自己的姓名,并统计输入次数。你无须 按enter键,只用监控输入缓存。确保代码在你名字中的字母重
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Module assignment list		教学模块任务列表
Bonus: add LED, Button and Sound I/O to your animation.	+2	奖励分:为动画增加LED,按钮和声音效果。
Bonus: Display typed characters on the LCD from the debug port. A maximum of 255 characters are allowed. If more than 40 characters are typed, the display should scroll up. When the user presses enter, output ALL of the typed characters to the debug port.	+5	奖励分:通过调试端口在液晶屏上显示输入的字符,最大255字符。如果输入字符数大于40,则滚屏显示。当用户按下确认键,在调试端口输出所有字符。
ANT Introduction	Marks(分)	ANT简介
ANT Introduction Set the Device Type to the last two digits of your phone number and show that the channel is connected in ANTWare.	Marks(分)	ANT简介 将设备类型设置为自己电话号码的最后两位,并显示频道与AN TWare连接。
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