

Relógio Digital

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Materiais

- Arduino
- Jumpers
- 13x Resistores 1K Ω
- 2x LEDs
- 3x Push Buttons
- Display de 7 segmentos anodo comum (4 dígitos)



Interface Usuário Máquina (IHM)

Função	T (s)	Botão	
Mostrar mm:ss	-		
Regular Relógio	-		
Regular Alarme	2		
Ativar Alarme	-		



Regular Relógio

Função	Botão
Selecionar hora/minuto	Botão 1
Incrementa	Botão 2

Obs: minutos vão para 0 depois do número 59
horas vão para 0 depois do número 23

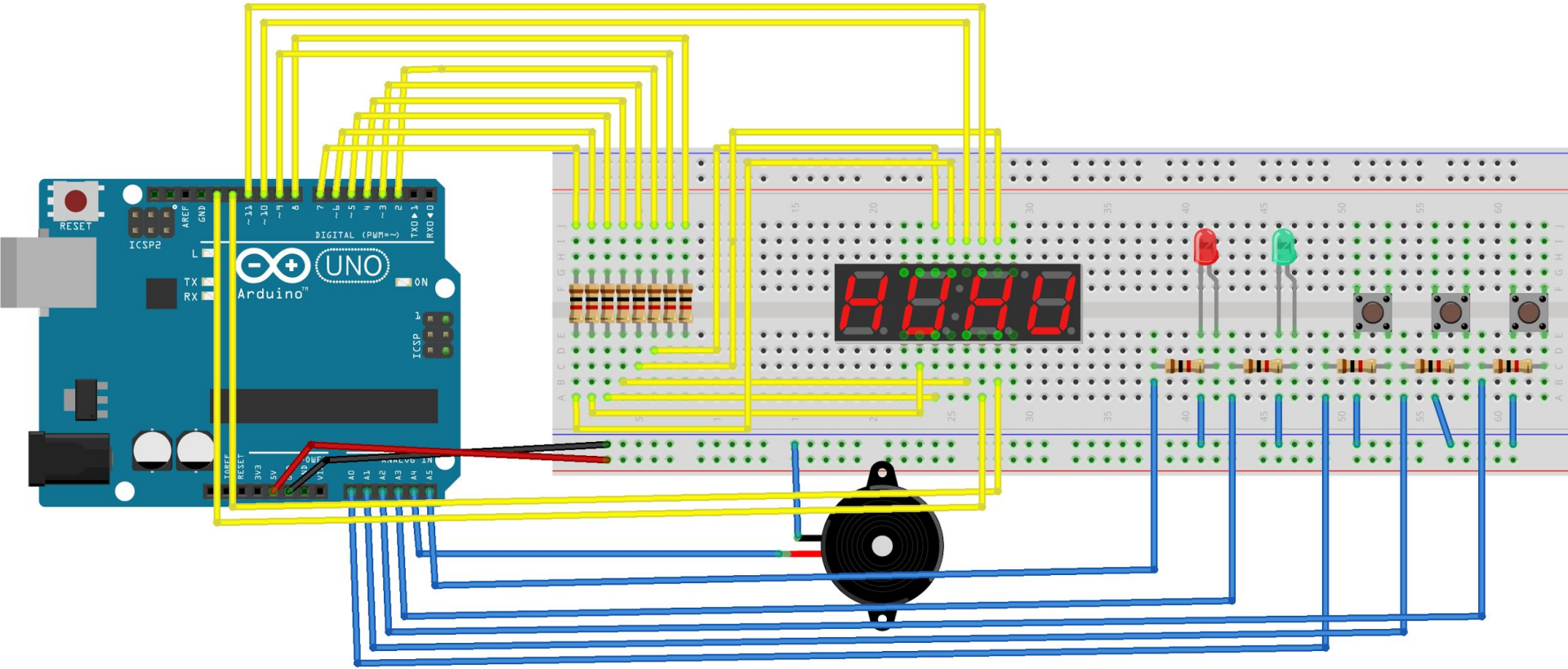


Regular Alarme

LED

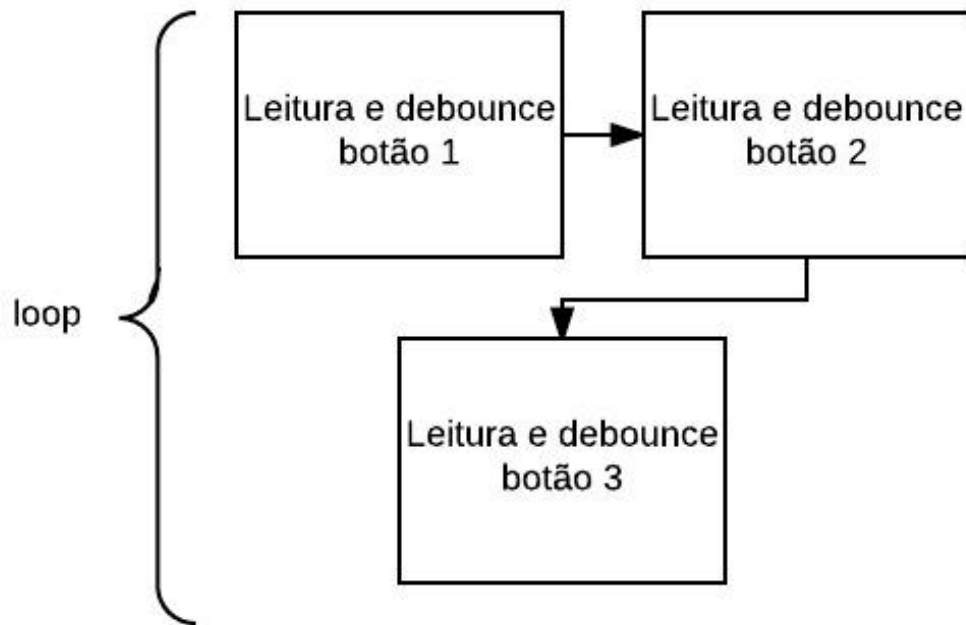
Função	Botão
Seleciona hora/minuto	Botão 1
Incrementa	Botão 2
Ativar/Desativar	Botão 3

Função	LED
Ativado	LED
Desativado	LED



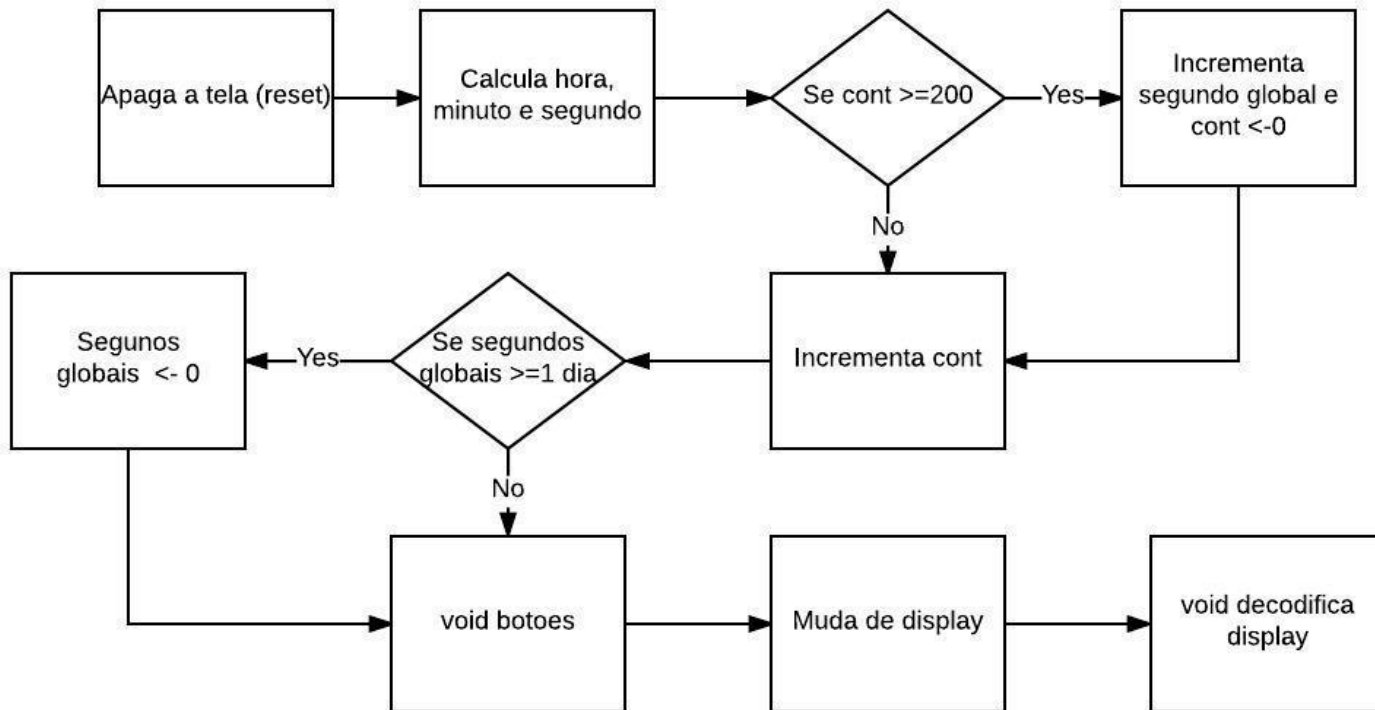


loop

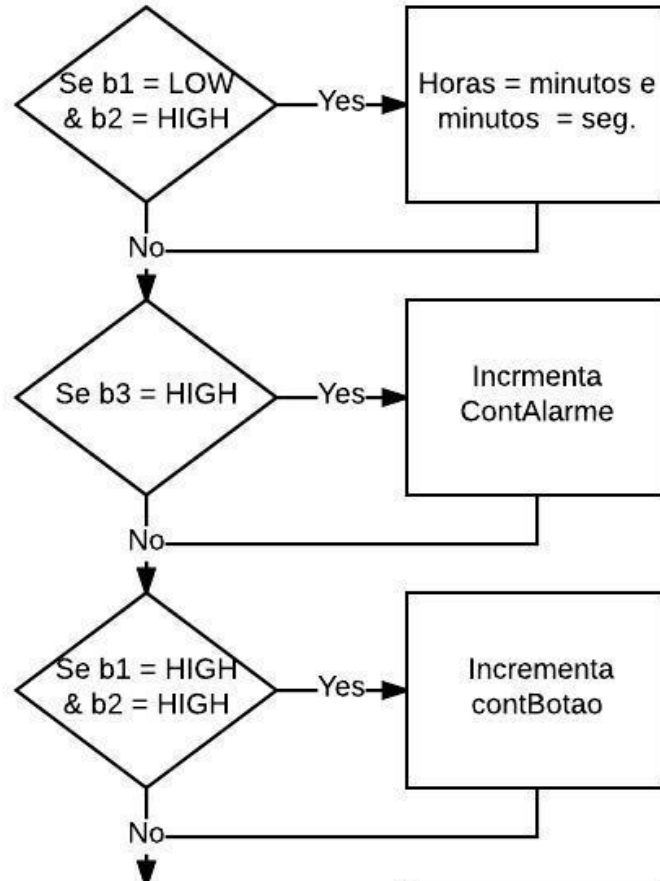




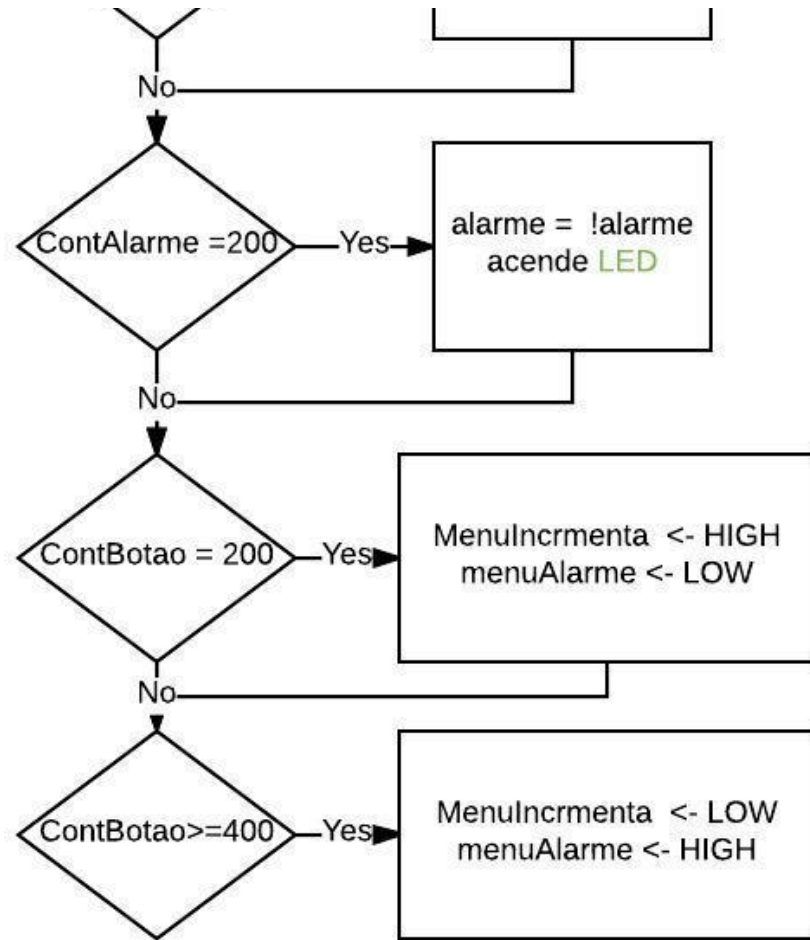
Timer interrupt



void botao()

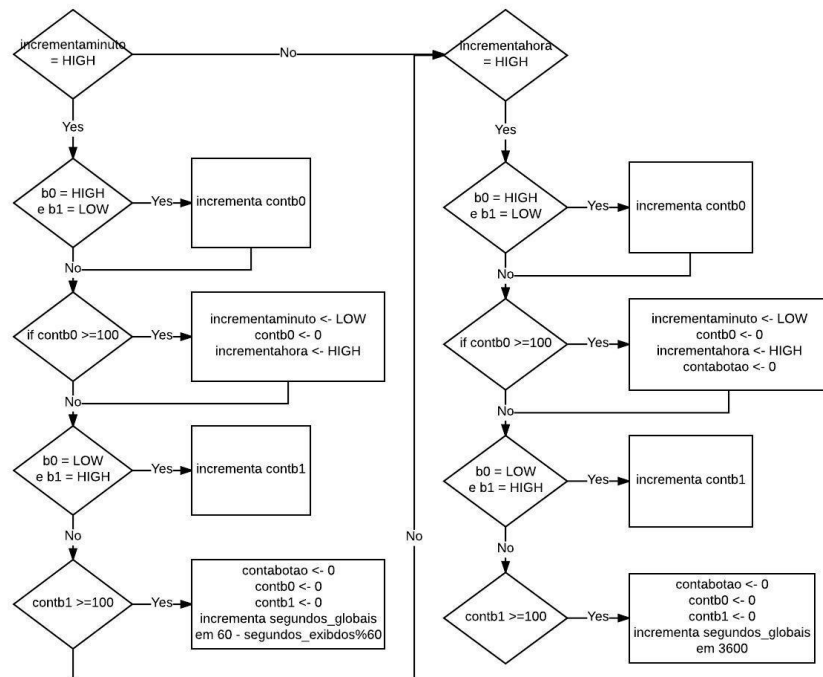


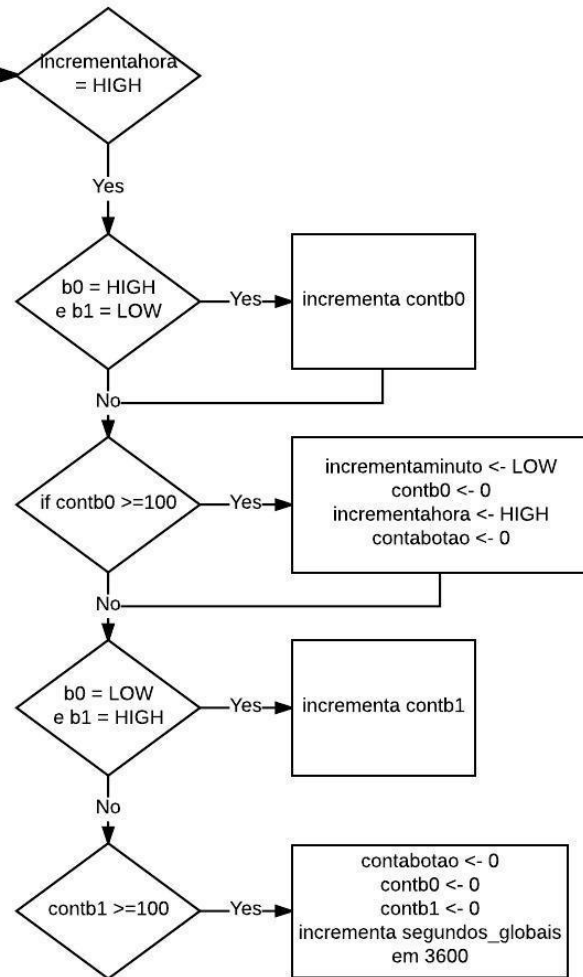
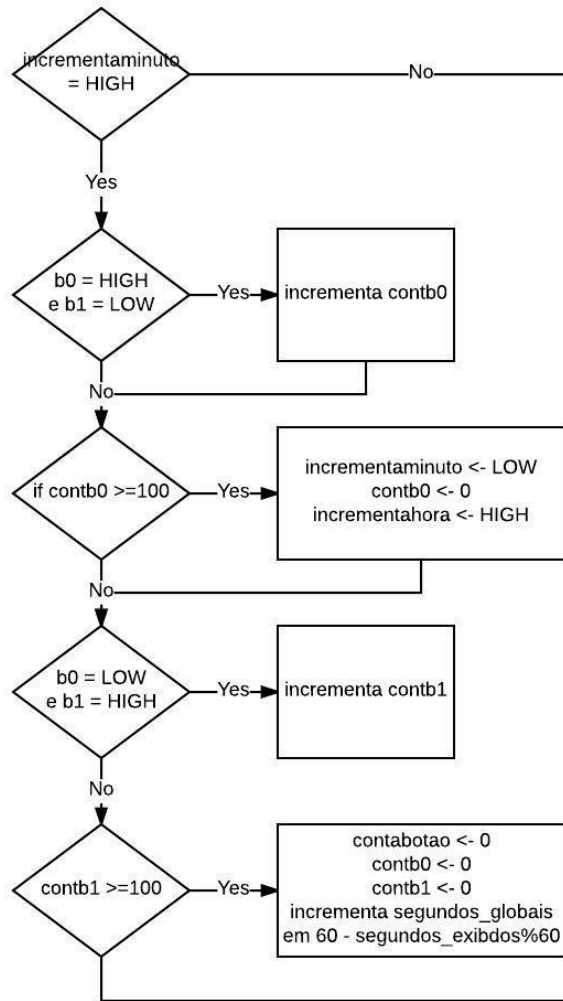
void botao()





incrementa hora e minuto







Outras Funções

- `void decodifica_tempo_disp();`
- `decodifica_alarme_disp()`
- `mostra_display()`
- `apaga()`
- `inicializa_display()`



Perguntas?

