ement	data ownership						
	main	soc_fns	can_driver	ltc_driver	fault_handler	cell_balance	ltc_cmds ltc_utilities
						declare cell_needs_balancing array	
	system init						
	soc init	tmr1 init					
		adc1 init					
	CAN init		CAN1 init				
			CAN2 init				
	LTC init			PEC table init			
	fault handler init				initialize fault counter arrays		
	balance timer init					tmr2 init	
	calc soc	calc SoC using accumulated samples					
		care of the assing accommunity of the samples					
	read config A						rdcfga
	declare cell voltages array						
	read cell voltages(cell_voltages)			start conversion			ADCV
				poll ADC			PLADC
				rdcv_reg			RDCV
	cell voltage fault(cell_voltages)				check for over/under voltage		
					check for missing measurement		
	report cell voltages(cell_voltages)		construct message				
			send message				
	update cell balance array(cell_voltages)					update cell balance array	
	report_balancing		get cell balance array				
			construct message				
			send message				
	declare pack temperatures array						
	read temperatures(pack_temps)			start conversion			ADAUX
	report pack temperatures(pack_temps)			poll ADC			PLADC
				rdcv_reg			RDAUX
	check for fault				iterate through arrays		
					shutdown car if necessary		
					stop cell balancing		
	report status		construct message				
			send message				

self test

open sense line check