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main controller
+ init before while()
+ init state()
+ idle state()
+ active_state()
+ qa state()
+ update state()
+ main_controller()
+ ~main controller()
+ need to stall()
+ stall_error_write_back()
+ is_b_mcu_valid()
+ get mcu valid()
+ set b mcu valid()
+ is_b_apt_valid()
+ get apt valid()
+ set_b_apt_valid()
+ is_b_am_valid()
+ get_am_valid()
+ set b am valid()
+ get_debug()
+ get_mem()
+ get_device()
+ get state()
+ get_screen()
+ get_adc()
+ get un32 pulses()
+ set_un32_pulses()
+ get_un32_max_count()
+ set_un32_max_count()
+ get_un32_pulses_on
screen()
+ set un32 pulses on
screen()
+ get_n16_battery()
+ set_n16_battery()
+ get un32 battery percent()
+ set_un32_battery_percent()
+ get_n16_pressure()
+ set_n16_pressure()
+ is b motor running()
+ set_b_motor_running()
+ is_b_pressure_ok()
+ set b pressure ok()
+ is b is counting up()
+ set_b_is_counting_up()
+ get_un32_mcu_sn()
+ set un32 mcu sn()
+ get un32 apt sn()
+ set_un32_apt_sn()
+ get un32 am sn()
+ set un32 am sn()
+ get_un32_cursor()
+ set_un32_cursor()
+ get_current_state()
```