Pseudo Code 4: Hardware Initialization code in a Bootloader

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| // Initialize memory*InitializeRAM();*// Initialize communication interfaces*InitializeUART();**InitializeSPI();**InitializeI2C();*// Initialize peripherals*InitializeGPIO();**InitializeADC();**InitializeDAC();*// Perform basic hardware tests*if (!TestRAM())* { // Handle RAM error}*if (!TestUART())* { // Handle UART error}*if (!TestSPI())* { // Handle SPI error}*if (!TestI2C())* { // Handle error}*if (!TestGPIO())* { // Handle error}*if (!TestADC())* { // Handle ADC error}*if (!TestDAC())* { // Handle DAC error}// If all tests = pass, then jump to the main firmware*Jump-To-Main-Firmware();* |