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();* |