Pseudo code 1: analyze IoT Firmware

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| # Extract firmware image from IoT device*firmware\_image = extract\_firmware(device)*# Analyze firmware image*analyze\_result = analyze\_firmware(firmware\_image)*# Perform firmware reverse engineering*reverse\_engineer\_result = reverse\_engineer\_firmware(firmware\_image,analyze\_result)*# Modify firmware*patched\_firmware = patch\_firmware(firmware\_image, custom\_payloads)*# Test firmware and bootloader*test\_results = test\_firmware(patched\_firmware)*# Generate report*generate\_report(analyze\_result,reverse\_engineer\_result, test\_results)* |