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)* |