Your goal is to develop a mobile application which tracks users' security behavior. Below is a checklist of behaviors of interest which you need to continuously track and log.

**Problem 1.1.** Track changes in the configuration of Advertising ID.

**Problem 1.2.** Track changes in the configuration of hide device in Bluetooth settings.

**Problem 1.3.** Track changes of passcode/PIN for the smartphones screen lock.

**Problem 1.4.** Detect if the user physically/manually covers her smartphone's screen when in public spaces.

**Problem 1.5.** Detect if the user uses adblocker(s).

**Problem 1.6.** Detect if the user uses anti-virus app(s).

**Problem 1.7.** Detect if the user uses VPN app(s) when connected to a public network.

**Problem 1.8.** Detect if the user turns off WiFi when not actively being used.

The following behaviors are harder to track so you might consider using different heuristics, Enterprise APIs or a VPN approach.

**Problem 2.1.** Track the source of the app when the user performs financial and/or shopping tasks.

**Problem 2.2.** Determine when downloading an app, if the user checks (or not) that the app is from the official/expected source (e.g. developer name).

**Problem 2.3.** Determine when downloading an app, if the user checks the source of apps (e.g. if they come from Google Play, Amazon Appstore or other third party stores).

**Problem 2.4.** Determine if the user verifies the recipient/sender before sharing text messages or other information using smartphone apps.

**Problem 2.5.** Determine if the user deletes any online communications (i.e., texts, emails, social media posts) that look suspicious.

**Problem 2.6.** Determine if the user pays attention to the pop-ups on her smartphone when connecting it to another device (e.g. laptop, desktop).

Most important for Problem set 2: 2.1; 2.3; 2.6