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CS166 - HW5

1. 9. Research has shown that most people cannot accurately identify an individual…
   a. **This scenario causes some sort of psychological effect — believing that people will most likely get busted if they use credit cards with photo that are not theirs.**
   b. **This approach is conflicting with the scenario in problem *a*; however, one of the reasons why this scenario is better than putting the photo on the card is because in case the season pass is used by an imposter, he/she may not have an idea what the cardholder look like. Say the imposter is asian, but cardholder is african american. Consequently, this could prevent criminals to attempt to use the pass card.**

2. 13. Many websites require users to register before they can access information...
   a. **Receiving original password is not good at all. No one should know your password, not even the website administrator. Programs nowadays typically hash passwords. Sending passwords through email is very dangerous because someone could be intercepting when the email (with your password) was in the process of transmission. If someone from the system sends you your password, it means this someone can go online and access your account, since he/she knows your password.**
   b. **The website most certainly did not use the correct approach because password that was sent is in plaintext, not encrypted. Like I said in 2.a, website administrator must hash passwords, as most systems do nowadays. In addition, the correct way to deal with passwords is to store salted hashes of passwords. This way, it reduces the ability to attack passwords since each resulting hashed password is a hash of the plaintext password.**

3. 21 Suppose that Alice uses two distinct passwords - one strong password for sites...
   a. **In terms of convenience, I would agree that it is reasonable; however, nowadays, different websites do require some sort of strict password generation in order impose users to provide strong passwords — a user's password must have uppercase, numbers, special characters, etc. In terms of security, I believe that whatever websites you register, online bank or social networking sites, you must generate and provide a strong password.**
   b. **One practical difficulties that might arise is websites imposition on password generation that I mentioned in answer 21.a; different websites do require different techniques or standard in password generation. With regards to Alice's strategy, she can mistakenly use her "strong" password on the not-care-so-much websites, and these websites might not treat these passwords properly or might have different standards (weak standards) in terms of security.**