14 Prove: Final Part II

Started: Dec 9 at 10:35pm

Quiz Instructions

Overview

- **Task**: Study Unit 0, 1, 2, and 3. Take the final exam.
- **Purpose**: Make sure we understand everything in the semester.
- **Time**: Three hours to study for the final, 90 minutes to take the test.

Instructions

- **Details about the final** **(https://content.byui.edu/file/2390954c-eadb-4592-aa96-5a29275f9404/1/Ponder/470.14.Final2.html)**
- Closed book

Question 1	27 pts

Please watch the following video clip:

Long Con Video Clip (https://cdnapisec.kaltura.com/p/1157612/sp/115761200/embedIframeJs/uiconf_id/33020032/partner_id/1157612?iframeembed=true&playerId=kaltura_player_1532623009&entry_id=0_m7iy2ocj) (1:40 mins, **Long Con Transcript** **(https://docs.google.com/document/d/e/2PACX-1vTPEepr1PROr37WU9KEBBwWyo4ZJjvCjnxUH3WO_L0vL8eLQynMXqYEOEkOgKBxXiCpPs7eTFOzm1PX/pub)**)

In this excerpt, Sawyer is involved in a con. Please identify all the tactics he is using and discuss how effective they are. Points will be deducted for false positives.
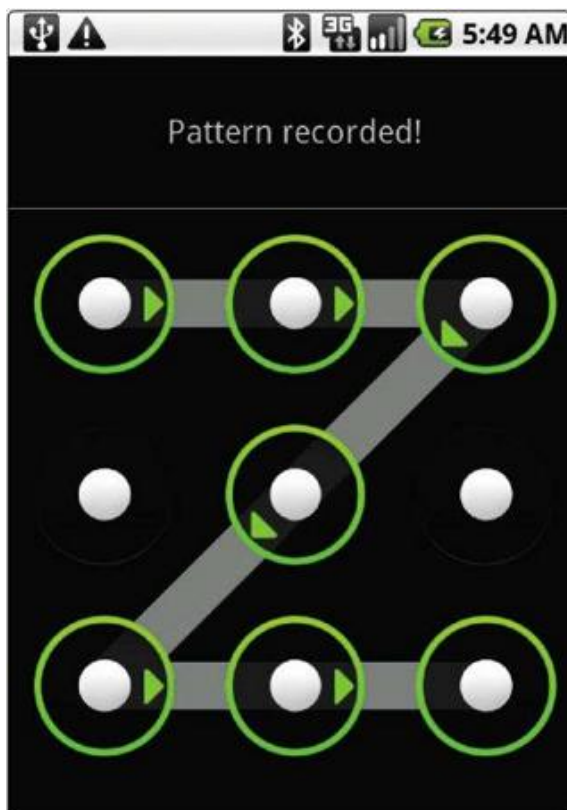
HTML Editor

B *I* U̲ A ▾ A ▾ *I̶ₓ* ≡ ≡ ≡ ≡ ≡ x² x₂ ≣ ≣

⊞ ▾ ▣ 🔗 ✂ 🖼 √x̄   ▣ ¶ ¶◀ 12pt ▾ Paragraph ▾ ⊛

p   0 words

Question 2   **12 pts**

Android phones often have a pattern authentication mechanism. Each dot can be selected no more than once and they can be selected in any order. What is its strength (both number of possible patterns and the bit strength)? Note that the following is one example, but a pattern of length 1 to 9 is possible. Please leave your answer as an equation rather than as a number.

Number of passwords:_____

Bit strength:_____

HTML Editor

B *I* U A ▾ A ▾ Ix ≡ ≡ ≡ ≡ ≡ x² x₂ ≔ ≔

⊞▾ ⊡ 🔗 ⌦ 🖼 √x   ▷ ¶ ¶ 12pt   ▾   Paragraph   ▾   ⊛

0 words

Question 3   **16 pts**

I am considering introducing a new biometric: handwriting. This will not be a measure of how a signature looks on the page, but rather how long it takes an individual to form the various letters, how he holds the pen, and how adjacent letters are connected using cursive. Comment on how effective of a biometric this might be. Hint: list the four qualifications for a biometric.

a. _____

b. _____

c. _____

d. _____

HTML Editor

B *I* U A ▾ A ▾ I_x ≡ ≡ ≡ ≡ ≡ x^2 x_2 ☰ ☰

⊞▾ ▶▸ 🔗 ✂ 🖼 √x   ▷ ¶ ¶◂ 12pt ▾ Paragraph ▾ ⊛

0 words

Question 4

30 pts

Identify the vulnerabilities in the associated code: **Finding Flaws**.

Name the vulnerability and give the line number. Five points will be deducted for every incorrect identification.

HTML Editor⌨

| **B** | *I* | U | A ▾ | A ▾ | I̠ₓ | ☰ | ☰ | ☰ | ☰ | ☲ | x² | x₂ | ☷ | ☷ |

| ⊞ ▾ | ▣ | 🔗 | ✂ | 🖼 | √x | | | ▷ | ¶ | ¶ | 12pt | ▾ | Paragraph | ▾ | ⊕ |

0 words

Question 5

15 pts

Please create a threat report for the following vulnerability when the fileName variable is on the stack. Please:

1. Name the threat (2 pt.)
2. Classify the threat (2 pt.)
3. Determine the severity of the threat (10 pt.)
4. Describe how to mitigate the threat (1 pt.)

```
void getFilename(char * fileName)
{
   cout << "What is the filename? ";
   cin >> fileName;
```

```
    cin >> fileName;
}
```

HTML Editor

B *I* U A ▾ A ▾ I_x ≡ ≡ ≡ ≡ ≡ x² x₂ ☰ ☷

⊞ ▾ ▦ 🔗 ⚿ 🖼 √x   ▷ ¶ ¶ 12pt ▾ Paragraph ▾ ⦿

0 words

Quiz saved at 10:38pm | Submit Quiz |

COPYRIGHT 2019 BRIGHAM YOUNG UNIVERSITY-IDAHO