

Question 1: A World With No Hardware Protection Suppose every program running on a computer could:

- read any memory;
- modify any memory;
- execute any instruction;
- directly control hardware devices; and
- interrupt or stop other programs.

Discuss the following questions with your group.

1.1. What are **two specific harms** that could result in this system?

1.2. For each harm you identified, which security property is primarily at risk: **Confidentiality, Integrity, Availability, or Authentication**?

1.3. Are there security guarantees the the operating could system still reliably provide if the hardware did not enforce any of these restrictions? Briefly explain.