Assignment 3

26/10/2026

40 Points Possible

Attempt 1

In Progress

NEXT UP: Submit Assignment

Add Comment

Unlimited Attempts Allowed

18/10/2026 to 28/10/2026

Details

Please submit your answers in a **digitally typed format**. All answers must be typed using a word processor or another appropriate digital tool.

Handwritten answers, photographs, or screenshots of notebook pages will not be accepted.

Please ensure that your answers are clearly organized, readable, and submitted in **PDF format**.

- **2.9** The services and functions provided by an operating system can be divided into two main categories. Briefly describe the two categories, and discuss how they differ.
- **2.10** Describe three general methods for passing parameters to the operating system.
- **2.12** What are the advantages and disadvantages of using the same system-call interface for manipulating both files and devices?
- **2.13** Would it be possible for the user to develop a new command interpreter using the system-call interface provided by the operating system?
- **2.15** What are the two models of interprocess communication? What are the strengths and weaknesses of the two approaches?
- **2.16** Contrast and compare an application programming interface (API) and an application binary interface (ABI).
- **2.17** Why is the separation of mechanism and policy desirable?
- **2.19** What is the main advantage of the microkernel approach to system design? How do user programs and system services interact in a microkernel architecture? What are the disadvantages of using the microkernel approach?
- **2.20** What are the advantages of using loadable kernel modules?
- **2.22** Explain why Java programs running on Android systems do not use the standard Java API and virtual machine.