Andrew Guarino

Professor Krawitz

Operating Systems

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Chapter 12 Exercises

1. A positive feedback loop is a mechanism used to monitor the system. When the system becomes underutilized, the feedback causes the arrival rate to increase. An example of this may be dishwasher because you can run it constantly and it does the same thing every time.
2. Negative feedback loop is a mechanism that monitors the systems resources and when it becomes too congested it signals the appropriate manager to slow down the arrival rate of the process.
3. Supermarket manager can use the positive feedback method by having a program that tell the person in line that the next register is open by displaying it. That will continue into a loop until the store is closed.
4. Increasing a jobs virtual memory would allow for an e commerce store to provide more products to sell and more orders to take in.
5. For better flow of the gas and the positive feedback the line would have to be shorter for the feedback to run properly
6. I would have the option to store the memory at a different location because it may have problems with the CPU bound at the end and if there is a way to secure a new spot for memory then it will work just fine.
7. Backups are extremely important because just in case you lose something and you can go back to your back up information. And if you get a new device, you can store it from there.
8. I would get a new laptop or send it to a professional depending on the laptop and if I need to upgrade it. The cost of trying to fox it might just have to be get a new laptop.
9. Reliability is 45
10. Reliability is 22
11. Reliability is 201
12. Reliability is 675
13. Availability is 577
14. Availability is 83