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CSC 536

Homework 6

1.

(a)

The probability that a given computer is up is 1 - (120 min)(1 hr/60 min)(1 day/24 hrs)/(360 days), or 99.9977%. The probably that all four computers is up is (0.999977)^4, or 99.9074%. Therefore, the probability that any one computer is down is 0.0926%.

(b)

The probability that a given computer is down is (120 min)(1 hr/60 min)(1 day/24 hrs)/(360 days), or 0.02314%. The probability that all four computers are down is (.0002314)^4, or 2.87E-15… not too shabby,