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Assignment 2, Written

Part a: M= The system is in multiuser state.

0 = The system is operating normally.

F = The Kernal is functioning.

I = The system is in interrupt mode.

Part b: $M \leftrightarrow 0$ (S1) $0 \rightarrow F$ (S2) $\neg F \lor I$ (S3) $\neg M \rightarrow I$ (S4) $\neg T$ (S5)

Part c: The system is not in interrupt mode (55).

If the system is not in interrupt mode, the system must be in multiuser state (sw).

If the system is in multiuser state, then the system is operating normally (SI).

If the system is operating normally, then the kemal must be functioning (SE).

If the kemal is functioning, then the system must be in interrupt mode (SE).

However, according to S5, the system is not in interrupt mode.

The kemal is functioning, and the system is not in interrupt mode. This is a contradiction.

Therefore, the set of suptem specifications is inconsistent.