

CSCI 211 Spring 2009
QUIZ 6
Assigned Friday, 09-02-20

Considered this sentence:

The elevator door should open if the elevator is stopped, it is level with the floor, and the timer has not expired, or if the elevator is stopped, it is level with the floor, and a button is pressed.

1. Identify phrases and match them to Boolean variables.

Answer: D: Elevator door opens, S: Elevator is stopped, F: Elevator is level with floor, T: Timer has expired, B: Button is pressed.

2. Represent the whole sentence by a Boolean equation.

Answer: $D = SFT' + SFB$

Note: This is exercise 4.1(d) in your textbook.