Etude 5  
COSC326  
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Consider the specifications:  
10 floors in a building  
5 seconds to travel between each floor (I.E., 1->2 takes 5 seconds)  
10 seconds for doors to open & close on a floor.

We can assume situations with the following parameters:   
Passenger statistics: direction, floor, time waiting, travel time.  
Passengers getting onto the elevator, ranging from 0-4.   
Passengers currently IN the elevator, ranging from 0-4.   
Direction the elevator is going in (Up, Down or at rest).  
Total time taken for each passenger to travel to a floor given above conditions.