HW #4

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#1 e.

O(1), assumption that the time it takes to press the button is the same for each floor.

f.

O(n), assumption that n is the number of floors you are going to and therefore the time it takes to get to a floor is based on going through each floor.

g.

O(n), Assumption for this complexity is that the n is number times you read the book and therefore time complexity is based on how many times the books is read.

#3 b.

O(n)

d.

O(n)

g.

O(n)

h.

O(log(n))

j.

O(1)

#4.

First Loop: O(n)

Second Loop: O(n)

Third Loop: 9

n\*n\*9 = 9n^2 = O(n^2)