## Week 1 Quiz

## **Q1.**

What's the time complexity to add a node to the head of a linked list?

```
A. 0(1)
```

C. O(n)

D. O(n<sup>2</sup>)

B. O(logn)

## **Q2**.

What is the big-O running time of the following function?

## **Q3.**

The efficiency of summing all of the keys in a "regular" (non-search) binary tree is O(n), since the algorithm needs to visit every node. What is the efficiency of summing all of the keys of a binary search tree?

```
A. O(1)
```

B. O(logn)

C. O(n)

D. O(nlogn)