Design and Analysis of Algorithms $_{\rm Graphs~3.2.8}$

Daniel Shannon April 20th, 2022 Once created, how long does it take to check if an edge exists?

I think it would take O(N) time because first you have to find the node - O(1) - then you have to traverse the sibling nodes from that node - O(N).

Once created, how long does it take to add an edge.

I takes O(1) time to add an edge since we just need to add a node the end of the linked list. O(1)