Langara College

Instructor's Name Arezoo Ariafar

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Time Complexity analysis

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Linked Queue ADT insert function
T(n) : O(1)
Constant time complexity since there is no traversing.

Linked Queue ADT remove function
T(n) : O(1)
Constant time complexity since there is no traversing.

Linked Priority Queue ADT insert function
T(n) : O(n)
Moving from node to node by the order of n we go sorting the queue based on priority.

Linked Priority Queue ADT remove function
T(n) : O(1)
Constant time complexity since there is no traversing.