CS 260

Assignment 2 (Design)

Designing a simple queue that can add objects to the end of the queue and remove objects from the front. LIFO' structuring.

For this structure. I'm thinking it would be best to implement a linked list. Elements are constantly entering and leaving, so a linked list will allow for efficient implementation of this.

My first instinct is to have two member variables for the Queue class:

Node* head! Node* tail!

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(with the class Node containing an int val and Node next element)

The head pointer is a stondard starting place for the Tinked list, while the toil pointer will always point to the lost object in the queue.

In theory, the tail pointer should reduce the time required to insert into the queue to constant time complexity, because you can always sump to the end of the queue.

Drawings will represent individual rades as blans:



