

REFLECTION ON CODE

How has your program changed from planning to coding to now? Please Explain?

I created a QueueList that implements the standard queue operation. If linked list implementation was used it's suitable for when queues that have unpredictable size requirements. If array implementation was used is when the maximum size is known and the overhead of the node creation should be avoided all time.

Advantages:

- Memory is allocated as needed
- Efficient operations such as enqueue and dequeue operation
- No requirement of shifting the elements

Disadvantages:

- Memory overhead
- Extra memory needed for node references
- No random access

Testing enqueue operations:

Queue size: 3

Testing peek operation:

Front element: First

Testing dequeue operations:

Removed: First

Removed: Second

Queue size: 1

Testing isEmpty:

Is queue empty? false

Is queue empty now? true

Testing exception handling:

Exception caught: Queue is empty