CS218 - Data Structures FAST NUCES Peshawar Campus Dr. Nauman (recluze.net)

September 15, 2019

1 Queue using "Array"

Raster images of the notebook 07-queue



```
In [ ]: def dequeue(self):
    if self.is_empty:
        raise IndexError("Queue empty. Cannot dequeue.")

    ret = self.q[self.o]
        self.o = self._inc(self.o)

    if self.i == self.o:
        self.is_empty = True

        self.is_full = False
        return ret

    Queue.dequeue = dequeue

In [ ]: def __str__(self):
        return str(self.q) + " , in: " + str(self.i) + ", out: " + str(self.o)
    Queue.__str__ = __str__
```

```
In []: q = Queue()
    q.enqueue(10)
    q.enqueue(20)
    q.enqueue(30)
    q.enqueue(40)
    q.enqueue(50)

# q.enqueue(55)

print(q)

print(q.dequeue())
```