LAPORAN PRAKTIKUM ALGORITMA DAN STRUKTUR DA-TA MODUL 8 QUEUES

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Kelas: D

Nomor 4 Queue

```
class Queue (object):
       def _ init (self):
          self.qlist = []
       def isEmpty(self):
           return len(self) == 0
       def len (self):
           return len(self.qlist)
       def enqueue (self, data):
           self.qlist.append(data)
       def dequeue(self):
           assert not self.isEmpty()
           return self.glist.pop(0)
       def getFront(self):
          return self.qlist[-1]
       def getRear(self):
           return self.qlist[0]
   a = Queue()
   a.enqueue('aa')
   a.enqueue('bb')
   a.enqueue('cc')
   print(a.qlist)
   a.dequeue()
   print(a.qlist)
   print(a.getFront())
   print(a.getRear())
Hasil
  ['aa', 'bb', 'cc']
  ['bb', 'cc']
  CC
  bb
  >>>
```

Nomer 4 Prior Queue

```
import heapq
  class Prior(object):
      def __init__(self):
    self.qlist= []
def __len__(self):
    return len(self.qlist)
       def isEmpty(self):
           return len(self) == 0
       def enqueue(self, data, prior):
          heapq.heappush(self.qlist, (prior, data))
self.qlist.sort()
       def dequeue(self):
          return self.qlist.pop(-1)
       def getFront(self):
           return self.qlist[-1]
       def getRear(self):
           return self.qlist[0]
  a = Prior()
  a.enqueue('aa', 5)
a.enqueue('bb', 1)
  a.enqueue('cc', 2)
  print(a.qlist)
  a.dequeue()
  print(a.qlist)
Hasil:
  [(1, 'bb'), (2, 'cc'), (5, 'aa')]
  [(1, 'bb'), (2, 'cc')]
  >>>
```

Nomer 5

```
import heapq
class Prior(object):
   def __init__(self):
       self.qlist= []
   def __len__(self):
        return len(self.qlist)
    def isEmpty(self):
        return len(self) == 0
    def enqueue(self, data, prior):
       heapq.heappush(self.qlist, (prior, data))
        self.qlist.sort()
    def dequeue(self):
        return self.qlist.pop(-1)
a = Prior()
a.enqueue('aa', 5)
a.enqueue('bb', 1)
a.enqueue('cc', 2)
print(a.qlist)
a.dequeue()
print(a.qlist)
```

Hasil:

```
[(1, 'bb'), (2, 'cc'), (5, 'aa')]
[(1, 'bb'), (2, 'cc')]
>>> |
```