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1 queue using singly linked list

[2]:
```
class node:
    def __init__(self,data):
        self.data=data
        self.next=None
class queue:
    def __init__(self):
        self.front=self.rear=None
    def isempty(self):
        if(self.rear==None):
            return
    def enqueue(self,item):
        temp=node(item)
        if self.rear==None:
            self.front=self.rear=temp
            return
        self.rear.next=temp
        self.rear=temp
        return
    def dequeue(self):
        if(self.isempty()):
            return
        temp=self.front
        self.front=temp.next
        return
    def display(self):
        current=self.front
        if current==None:
            print("queue is empty")
            return
        while current!=None:
            print(current.data,end=" <--")
            current=current.next

q=queue()
q.enqueue(10)
```

```
q.enqueue(20)
q.enqueue(30)
q.enqueue(40)
q.dequeue()
q.dequeue()
print("rear is at",q.rear.data)
print("Front is at",q.front.data)
q.display()
```

```
rear is at 40
Front is at 30
30 <--40 <--
```

2 queue using doubly linked list

[ ]: