class Node(object):

def init(self, data, prev, next):

self.data = data self.prev = prev self.next = next class DoubleList(object):

head = None

tail = None

def append(self, data):

new\_node = Node(data, None, None)

if self.head is None:

self.head = self.tail = new\_node else:

new\_node.prev = self.tail new\_node.next = None self.tail.next = new\_node self.tail = new\_node def remove(self, node\_value):

current\_node = self.head

while current\_node is not None: if current\_node.data == node\_value:

current\_node.prev is not None: current\_node.prev.next = current\_node.next current\_node.next.prev = current\_node.prev

else:

self.head = current\_node.next current\_node.next.prev = None current\_node = current\_node.next

def show(self):

print "Show list data:" current\_node = self.head

while current\_node is not None: print current\_node.prev.data if (current\_node.prev, "data")

else None, print current\_node.data,

print current\_node.next.data (current\_node.next, "data")

else None current\_node = current\_node.next print "\*"\*50 d = DoubleList()

d.append(5)

d.append(6)

d.append(50)

d.append(30)

d.show()

d.remove(50)

d.remove(5)

d.show()