class Node:

def \_init\_(self, data):

self.data = data

self.next = None

self.prev = None

class DoublyLinkedList:

def \_init\_(self):

self.head = None

self.tail = None

def insert(self, data):

new\_node = Node(data)

if self.head is None:

self.head = new\_node

self.tail = new\_node

else:

new\_node.prev = self.tail

self.tail.next = new\_node

self.tail = new\_node

def print\_list(self):

temp = self.head

while temp is not None:

print(temp.data)

temp = temp.next

if \_name\_ == '\_main\_':

dll = DoublyLinkedList()

dll.insert(1)

dll.insert(2)

dll.insert(3)

dll.print\_list()