Assignment 5

독어교육과 2014-19498 정은주

Problem 1

Problem 2

```
push(5)
push(3)
pop() #return 3
push(2)
push(8)
pop() #return 8
pop() #return 2
push(9)
push(1)
pop() #return 1
push(7)
push(6)
pop() #return 6
pop() #return 7
push(4)
pop() #return 4
pop() #return 9
5 still remaining in stack!
```

Problem 3

current size of Q = 22

Problem 4

```
In [13]: #problem 4
In [14]: import queue
    class Empty(Exception):
        pass
    class MyQueue:
        def __init__(self):
            self._myqueue = queue.Queue()
        def __len__(self):
            return self._myqueue.qsize()
        def is_empty(self):
        return self._myqueue.empty()
                     return self._myqueue.empty()
def enqueue(self, e):
                     self._myqueue.put(e)
def dequeue(self):
    if self.is_empty():
        raise Empty("this queue is empty")
                           else:
                                 return self._myqueue.get()
 In [15]: my_queue = MyQueue()
 In [16]: my_queue.dequeue()
                                                                              Traceback (most recent call last)
               <ipython-input-16-71104c446c8d> in <module>
----> 1 my_queue.dequeue()
               else:
                      16
                      17
                                             return self._myqueue.get()
               Empty: this queue is empty
 In [17]: my_queue.enqueue(14)
 In [18]: my_queue.enqueue(19)
 In [19]: my_queue.dequeue()
 Out[19]: 14
 In [20]: my_queue.dequeue()
 Out[20]: 19
```