class MyQueue(object):

def \_\_init\_\_(self):

self.input = []

self.output = []

def push(self, x):

self.input.append(x)

def pop(self):

self.peek()

return self.output.pop()

def peek(self):

if(self.output == []):

while(self.input != []):

self.output.append(self.input.pop())

return self.output[-1]

def empty(self):

return self.input == [] and self.output == []