Started on	Wednesday, 6 November 2024, 11:05 AM
State	Finished
Completed on	Wednesday, 6 November 2024, 12:05 PM
Time taken	59 mins 19 secs
Grade	**100.00** out of 100.00

Question **1**

Correct

Mark 20.00 out of 20.00

Write a python program to create a stack with a maximum size of 7 using Lifo Queue. Get the input from the user and check whether the stack is full and then display the stack values in reverse order

For example:

Input	Result
4 Maths Physics Chemistry Biology	False Biology Chemistry Physics Maths
7 Maths Physics Chemistry Biology History Economics English	True English Economics History Biology Chemistry Physics Maths

Answer: (penalty regime: 0 %)

Reset answer

```
from queue import LifoQueue
stack=LifoQueue(maxsize=7)
n=int(input())
for i in range(n):
    stack.put(input())
print(stack.full())
for i in range(n):
    print(stack.get())
```

	Input	Expected	Got	
✔	4 Maths Physics Chemistry Biology	False Biology Chemistry Physics Maths	False Biology Chemistry Physics Maths	✔

	Input	Expected	Got	
✔	7 Maths Physics Chemistry Biology History Economics English	True English Economics History Biology Chemistry Physics Maths	True English Economics History Biology Chemistry Physics Maths	✔

Passed all tests! ✔

Correct

Marks for this submission: 20.00/20.00.

Question **2**

Correct

Mark 20.00 out of 20.00

Write a python program to delete two neighboring non-identical letters(lower case and upper case) .

Example: AbBbA

lowercase b and uppercase B will get removed

For example:

Input	Result
leEeetcode	leetcode

Answer: (penalty regime: 0 %)

```
def delete(n):
    stack=[]
    for i in n:
        if stack and stack[-1]==i.upper():
            stack.pop()
        else:
            stack.append(i)
    return ''.join(stack)
n=input()
print(delete(n))
```

	Input	Expected	Got	
✔	leEeetcode	leetcode	leetcode	✔

Passed all tests! ✔

Correct

Marks for this submission: 20.00/20.00.

Question **3**

Correct

Mark 20.00 out of 20.00

Develop a python programming to add a few fruits name in the queue(from rear end) without any duplication

For example:

Input	Result
5 Papaya Mango Guava Apple Mango	['Apple', 'Guava', 'Mango', 'Papaya']
3 Grapes Banana Grapes	['Banana', 'Grapes']

Answer: (penalty regime: 0 %)

```
class Queue:
    def __init__(self):
        self.queue=list()
    def add_element(self,val):
        if val not in self.queue:
            self.queue.insert(0,val)
            return True
        return False
    def size(self):
        return len(self.queue)
TheQueue=Queue()
n=int(input())
for i in range(n):
    TheQueue.add_element(input())
print(TheQueue.queue)
```

	Input	Expected	Got	
✔	5 Papaya Mango Guava Apple Mango	['Apple', 'Guava', 'Mango', 'Papaya']	['Apple', 'Guava', 'Mango', 'Papaya']	✔
✔	3 Grapes Banana Grapes	['Banana', 'Grapes']	['Banana', 'Grapes']	✔

Passed all tests! ✔

Correct

Marks for this submission: 20.00/20.00.

Question **4**

Correct

Mark 20.00 out of 20.00

Develop a python program to remove 3 values from the user and display the values using circular queue

For example:

Input	Result
1 2 3 4 5	4 5
10 20 30 40 50	40 50

Answer: (penalty regime: 0 %)

Reset answer

```
class MyCircularQueue():
    def __init__(self, k):
        self.k = k
        self.queue = [None] * k
        self.head = self.tail = -1
    def enqueue(self, data):
        if ((self.tail + 1) % self.k == self.head):
            print("The circular queue is full\n")
        elif (self.head == -1):
            self.head = 0
            self.tail = 0
            self.queue[self.tail] = data
        else:
            self.tail = (self.tail + 1) % self.k
            self.queue[self.tail] = data
    def dequeue(self):
        if(self.head==-1):
            print("The circular queue is empty\n")
        elif(self.head==self.tail):
            temp=self.queue[self.head]
            self.head=-1
            self.tail=-1
```

	Input	Expected	Got	
✔	1 2 3 4 5	4 5	4 5	✔
✔	10 20 30 40 50	40 50	40 50	✔

Passed all tests! ✔

Correct

Marks for this submission: 20.00/20.00.

Question **5**

Correct

Mark 20.00 out of 20.00

Add destructor in the following python code

For example:

Input	Result
Kevin 24	Person Created Kevin 24 Kevin Object Destroyed

Answer: (penalty regime: 0 %)

Reset answer

```
class Person:
    def __init__(self,name,age):
        print("Person Created")
        self.name = name
        self.age = age
    def printInfo(self):
        print(self.name,self.age)
   #add destructor
        print(self.name,"Object Destroyed")

name=input()
age=int(input())
P1=Person(name,age)
#P2=Person("Joe",34)
P1.printInfo()
#P2.printInfo()
del P1
```

	Input	Expected	Got	
✔	Kevin 24	Person Created Kevin 24 Kevin Object Destroyed	Person Created Kevin 24 Kevin Object Destroyed	✔
✔	John 46	Person Created John 46 John Object Destroyed	Person Created John 46 John Object Destroyed	✔

Passed all tests! ✔

Correct

Marks for this submission: 20.00/20.00.