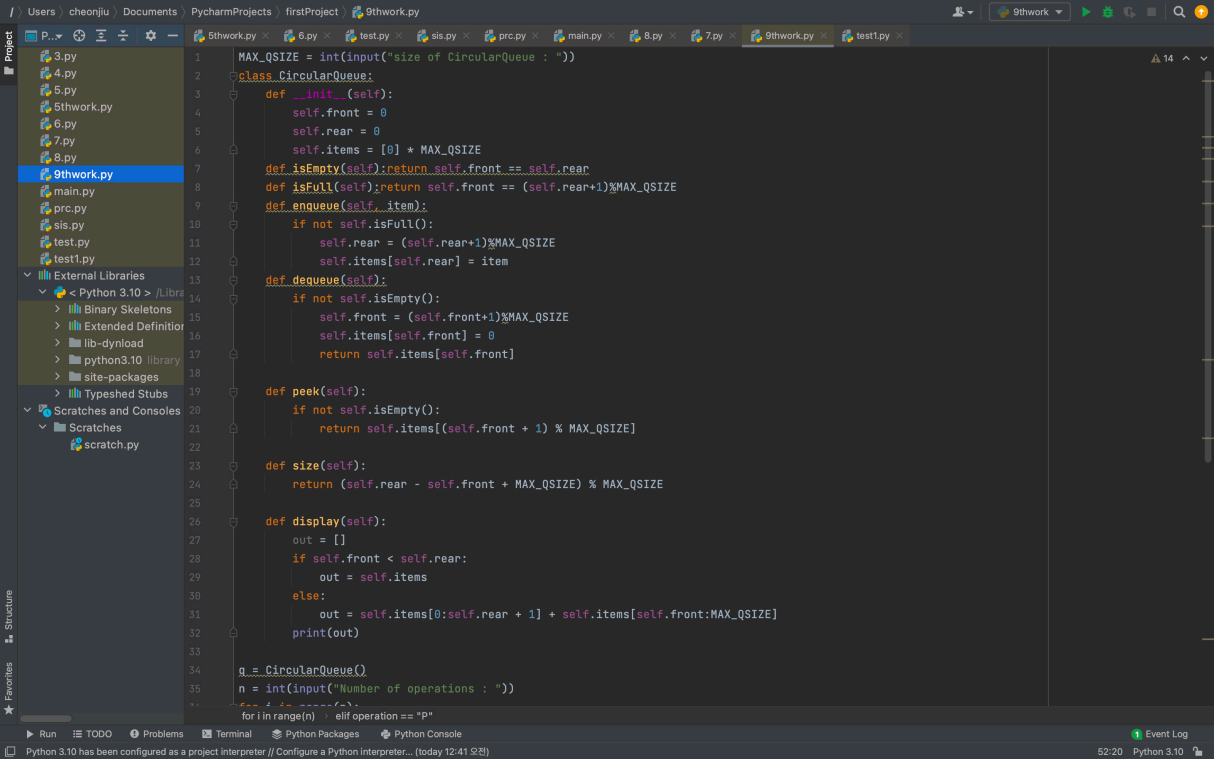
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14
MAX_QSIZE = int(input("size of CircularQueue : "))
class CircularQueue:
def __init__(self):
self.front = 0
self.rear = 0
self.items = [0] * MAX_QSIZE
def isEmpty(self):return self.front == self.rear
def isFull(self):return self.front == (self.rear+1)%MAX_QSIZE
def enqueue(self, item):
if not self.isFull():
self.rear = (self.rear+1)%MAX_QSIZE
self.items[self.rear] = item
def dequeue(self):
if not self.isEmpty():
self.front = (self.front+1)%MAX_QSIZE
self.items[self.front] = 0
return self.items[self.front]
def peek(self):
if not self.isEmpty():
return self.items[(self.front + 1) % MAX_QSIZE]
def size(self):
return (self.rear - self.front + MAX_QSIZE) % MAX_QSIZE
def display(self):
out = []
if self.front < self.rear:
out = self.items
else:
out = self.items[0:self.rear + 1] + self.items[self.front:MAX_QSIZE]
print(out)
q = CircularQueue()
n = int(input("Number of operations : "))
for i in range(n)
elif operation == "P"
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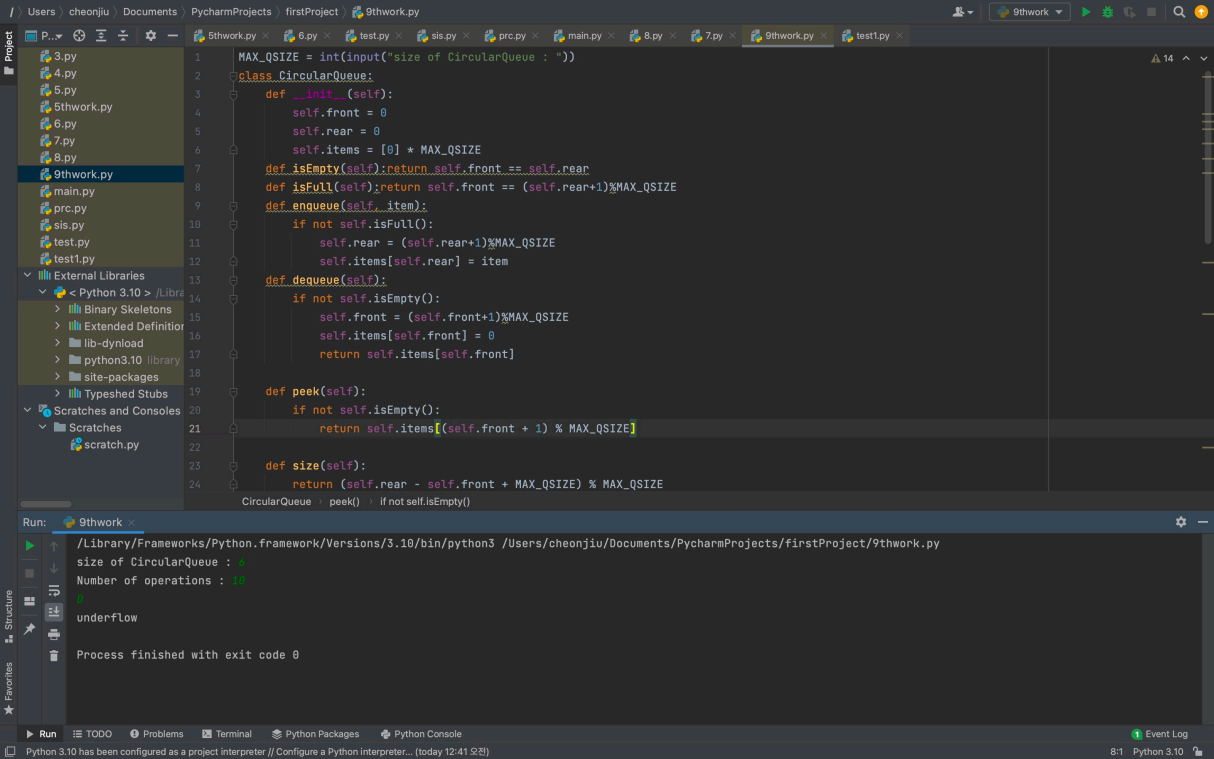
```
    def size(self):
        return (self.rear - self.front + MAX_QSIZE) % MAX_QSIZE

    def display(self):
        out = []
        if self.front < self.rear:
            out = self.items
        else:
            out = self.items[0:self.rear + 1] + self.items[self.front:MAX_QSIZE]
        print(out)

q = CircularQueue()
n = int(input("Number of operations : "))
for i in range(n):
    inputs = input()
    operation = inputs[0]
    if q.isFull():
        if operation == "I":
            print("overflow", q.display())
            break
    elif operation == "I":
        num = int(inputs[2:])
        q.enqueue(num)
    elif operation == "D":
        q.dequeue()
        if q.isEmpty():
            print("underflow")
            break
    elif operation == "P":
        q.display()
```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self.items[self.front] = 0
return self.items[self.front]
def peek(self):
if not self.isEmpty():
return self.items[(self.front + 1) % MAX_QSIZE]
def size(self):
return (self.rear - self.front + MAX_QSIZE) % MAX_QSIZE
CircularQueue peek() if not self.isEmpty()
Run: 9thwork
/Library/Frameworks/Python.framework/Versions/3.10/bin/python3 /Users/cheonjiu/Documents/PycharmProjects/firstProject/9thwork.py
size of CircularQueue : 6
Number of operations : 10
0
underflow
Process finished with exit code 0
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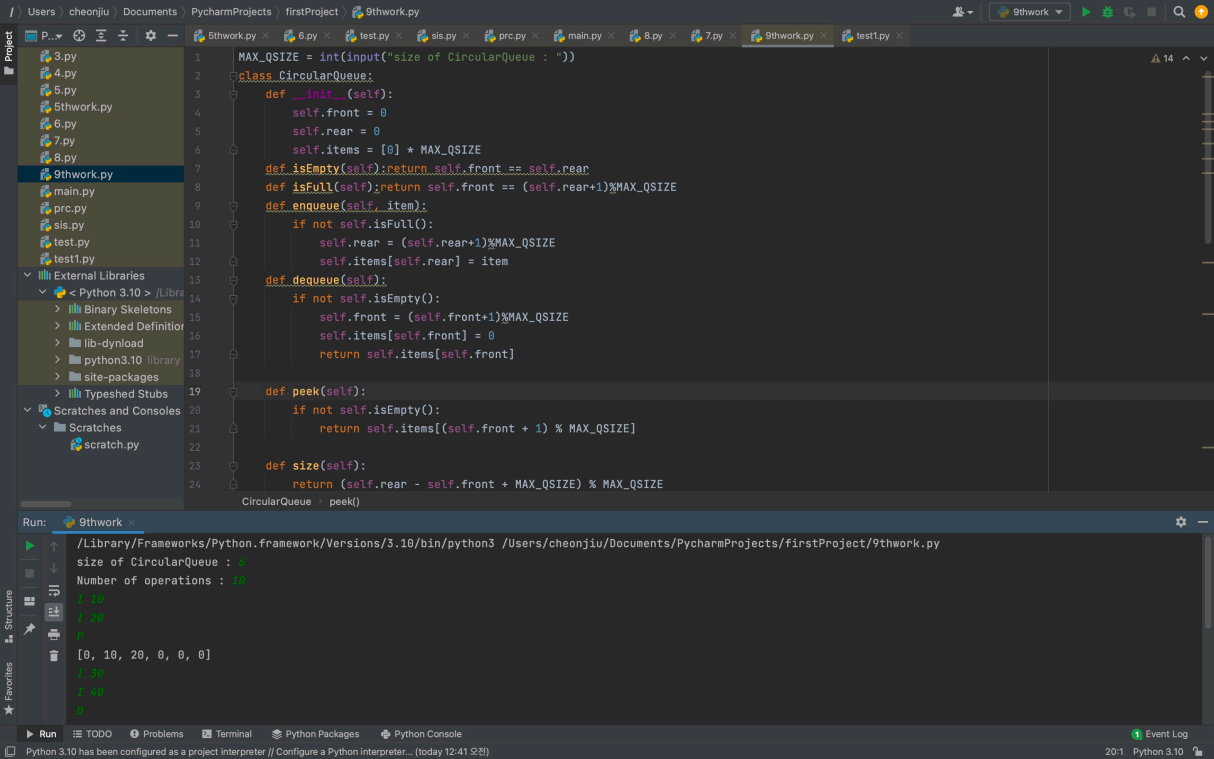
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self.items[self.rear] = item
def dequeue(self):
if not self.isEmpty():
self.front = (self.front+1)%MAX_QSIZE
self.items[self.front] = 0
return self.items[self.front]
def peek(self):
if not self.isEmpty():
return self.items[(self.front + 1) % MAX_QSIZE]
def size(self):
return (self.rear - self.front + MAX_QSIZE) % MAX_QSIZE
CircularQueue › peek()
Run:
9thwork
/Library/Frameworks/Python.framework/Versions/3.10/bin/python3 /Users/cheonjiu/Documents/PycharmProjects/firstProject/9thwork.py
size of CircularQueue : 6
Number of operations : 10
I 10
I 20
P
[0, 10, 20, 0, 0, 0]
I 30
I 40
P
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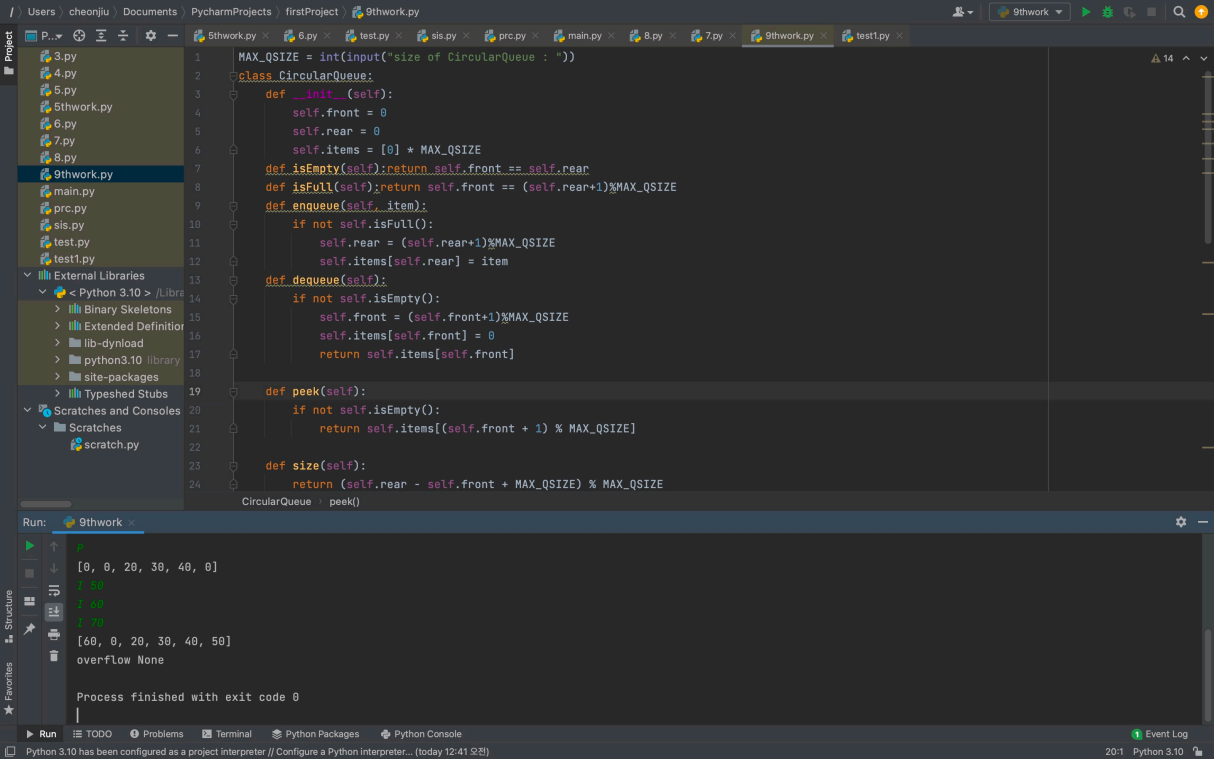
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self.items[self.front] = 0
return self.items[self.front]
def peek(self):
if not self.isEmpty():
return self.items[(self.front + 1) % MAX_QSIZE]
def size(self):
return (self.rear - self.front + MAX_QSIZE) % MAX_QSIZE
CircularQueue
peek()
Run:
9thwork
F
[0, 0, 20, 30, 40, 0]
I 50
I 60
I 70
[60, 0, 20, 30, 40, 50]
overflow None
Process finished with exit code 0
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