

## Programming Assignment Some Important Results

StackQueue main and its output for integer. I use integer to check if my code work properly. In this part, I used array in StackQueue.



```
C:\Users\toshiba\Desktop\4.1\EE\EE441HW2\Q2.exe
1
2
101
98
97
3
4
95
92
5
```

```
int main(){
    StackQueue<int> berker;

    berker.Push_front(1);
    berker.Push_front(2);
    berker.Push_front(3);
    berker.Push_front(4);
    berker.Push_front(5);
    berker.Push_front(92);
    berker.Push_front(95);
    berker.Push_front(97);
    berker.Push_front(98);
    berker.Push_front(101);
    cout<<berker.Pop_rear()<<endl;
    cout<<berker.Pop_rear()<<endl;
    cout<<berker.Pop_front()<<endl;
    cout<<berker.Pop_front()<<endl;
    cout<<berker.Pop_front()<<endl;
    cout<<berker.Pop_rear()<<endl;
    cout<<berker.Pop_rear()<<endl;
    cout<<berker.Pop_front()<<endl;
    cout<<berker.Pop_front()<<endl;
    cout<<berker.Pop_front()<<endl;
    return 0;
}
```

StackQueue main and its output for integer. In this part, I used linkedlist in StackQueue.

C:\Users\toshiba\Desktop\4.1\EE\EE441HW2\LinkedList.exe

1  
2  
97  
95  
92  
3  
4  
5

```
int main(){
    StackQueue<int> berker;

    berker.Push_front(1);
    berker.Push_front(2);
    berker.Push_front(3);
    berker.Push_front(4);
    berker.Push_front(5);
    berker.Push_front(92);
    berker.Push_front(95);
    berker.Push_front(97);

    cout<<berker.Pop_rear()<<endl;
    cout<<berker.Pop_rear()<<endl;
    cout<<berker.Pop_front()<<endl;
    cout<<berker.Pop_front()<<endl;
    cout<<berker.Pop_rear()<<endl;
    cout<<berker.Pop_rear()<<endl;
    cout<<berker.Pop_front()<<endl;

    return 0;
}
```

```
#####
#. .###
#@$#$ #
#$. . $ #
s# $.#
#####
w
#####
#+. .###
# $#$ #
#$. . $ #
# $.#
#####
d
#####
#.@ .###
# $#$ #
#$. . $ #
# $.#
#####
s
#####
#. .###
# @#$ #
#$* . $ #
# $.#
#####
s
#####
#. .###
# # $ #
# $+ . $ #
# $ $.#
#####
```

I check the move operations. Its result is successful. This is done by using array in

StackQueue

```
#####
#. .###
# @#$ #
#$* . $ #
# $.#
#####
s
#####
#. .###
# # $ #
# $+ . $ #
# $ $.#
#####
z
#####
#. .###
# @#$ #
#$* . $ #
# $.#
#####
```

I checked z command. It result is same as previous step(before s). Array is used in

StackQueue

```

r
#####
#. .###
#@$#$ #
#$. .$. #
# $.#
#####
#####
#+. .###
# $$$ #
#$. .$. #
# $.#
#####
#####
#.@ .###
# $$$ #
#$. .$. #
# $.#
#####
#####
#. .###
# @#$ #
#$* .$. #
# $.#
#####

```

I checked z. It gives the whole operations result. This result is obtained after whole operations which are shown as above. Array is used in StackQueue

```

#####
#. .###
#@#$ $ #
#$. $. #
# $.#
#####
w
#####
#+ .###
# $$ $ #
#$. $. #
# $.#
#####
d
#####
#.@ .###
# $$ $ #
#$. $. #
# $.#
#####
s
#####
#. .###
# @#$ #
# $* $. #
# $.#
#####
s
#####
#. .###
# # $ #
# $+ $. #
# $ $.#
#####

```

I check the move operations. Its result is successful. This is done by using linkedlist in StackQueue

```

#####
#. .###
# @#$ #
# $* $. #
# $.#
#####
s
#####
#. .###
# # $ #
# $+ $. #
# $ $.#
#####
z
#####
#. .###
# @#$ #
# $* $. #
# $.#
#####

```

I checked z command. It result is same as previous step(before s) Linkedlist is used in StackQueue

```
#####
# . .###
# @ $ $ #
# $ . . $ #
# $ . #
#####
#####
# + .###
# $ $ #
# $ . . $ #
# $ . #
#####
#####
# . @ .###
# $ $ #
# $ . . $ #
# $ . #
#####
#####
# . .###
# @ $ #
# $ * . $ #
# $ . #
#####
```

I checked z. It gives the whole operations result. This result is obtained after whole operations which are shown as above. Linkedlist is used in StackQueue

```
# # @ #
# * . $ #
# * #
#####
#####
# * *###
# # @ #
# * . $ #
# * #
#####
#####
# * *###
# # @ #
# * . $ #
# * #
#####
#####
# * *###
# # #
# * . $ @ #
# * #
#####
#####
# * *###
# # #
# * * @ #
# * #
#####
CONGRATULATIONS YOU WON !!!
```

Solved puzzle by using array in StackQueue.

Input is

wdddsddssawaasaawwsdsddwddsaawwwaasassdwddsawdwwaasasddsdwsddwasaawaasddddwaasa  
awwdwddswaasassdddddwassaawdwddsa

```

# #@ #
# * . $ #
#   *#
#####
#####
#* *###
# # @ #
# * . $ #
#   *#
#####
#####
#* *###
# # @#
# * . $ #
#   *#
#####
#####
#* *###
# # #
# * . $@#
#   *#
#####
#####
#* *###
# # #
# * *@ #
#   *#
#####
CONGRATULATIONS YOU WON !!!

```

Solved puzzle by using linkedlist in StackQueue.

Input is

wdddsddssawaasaawwsdsddwddsaawwwaasassdwwdsawdwwaasasddsdwsddwasaawaasddddwaasa  
awwdwddswaasassddddwdwassaawdwddsa

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