Lab 6.

28/10/2020 Date

→ circular queue / pseudo code

* Declaring the header file.
  #include <stdio.h>
  #include <conio.h>
  #include <process.h>
* Declaring size
  initializing the variables of item, front = 0, rear = -1
  & of size which is an array, then count = 0.

* declaring function prototype for inserting an item in rear.
  → in that looking
    if (count is equal to Queue size)
  then printing Queue overflow
  → else,
    → taking rear = (rear + 1) % Queue size // if we want inserting again at first
    → inserting an item into that particular place, or a[rear]
    → Then incrementing count.

* declaring function prototype for deleting an item in front.
  → if (count is equal to 0)
    returning -1 or queue is empty, we cant remove anything.
  → else,
    Delete that item,
    by taking = front = (front + 1) % QUE-SIZE
    decrement that count,
    returning an item.

Teacher's Signature

* declaring function prototype for displaying items of queue.

* if count is equal to 0
printing queue is empty.

else
displaying the contents.

* then main from where execution takes place.
→ taking choice from user.
→ taking switch case for taking cases.

In

* case 1:
→ Taking an item from the user.
→ then calling function of inserting rear.
then break, for leaving this case and going again to entering choice.

* case 2. calling the function deleting at front
→ if(item == -1)
→ printing ("queue is empty\n")
→ printing which element is deleted
→ break

* case 3:-
→ calling the function to display the element.
→ break

then case 4:
exit