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WEEK 5: Program to simulate working of Queue of integers using array.

Algorithm:

Step 1: [Method to implement inserting at rear]
(Overflow check):
if REAR = QUE_SIZE - 1
then write Queue is full.
return

Step 2: Increment Rear pointer and add item:
REAR = REAR + 1
Q[REAR] = ITEM.

Step 3: [Method to implement deleting at front]
if FRONT > REAR
FRONT = 0 ;
REAR = -1 ;
return -1;

Step 4: return Q[FRONT++]

Step 5: [Method to display]:
if FRONT > REAR
then write Queue is empty.
return.

Step 6: Print contents of Queue
for(i = FRONT ; i <= REAR ; i++)
print q[i]

Step 7: void main ()
   Enter choice: 1. Insert 2. Delete 3 Display 4 Exit
   switch (choice)
    case 1: Input items to be inserted.
      call insertrear() method.
    case 2: print item deleted.
      if ITEM = -1
       then write queue is empty.
       call deletefront method.
    case 3: call display method.
    default: exit.
Step 8: Stop.

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