## A SSIGNMENT- 3

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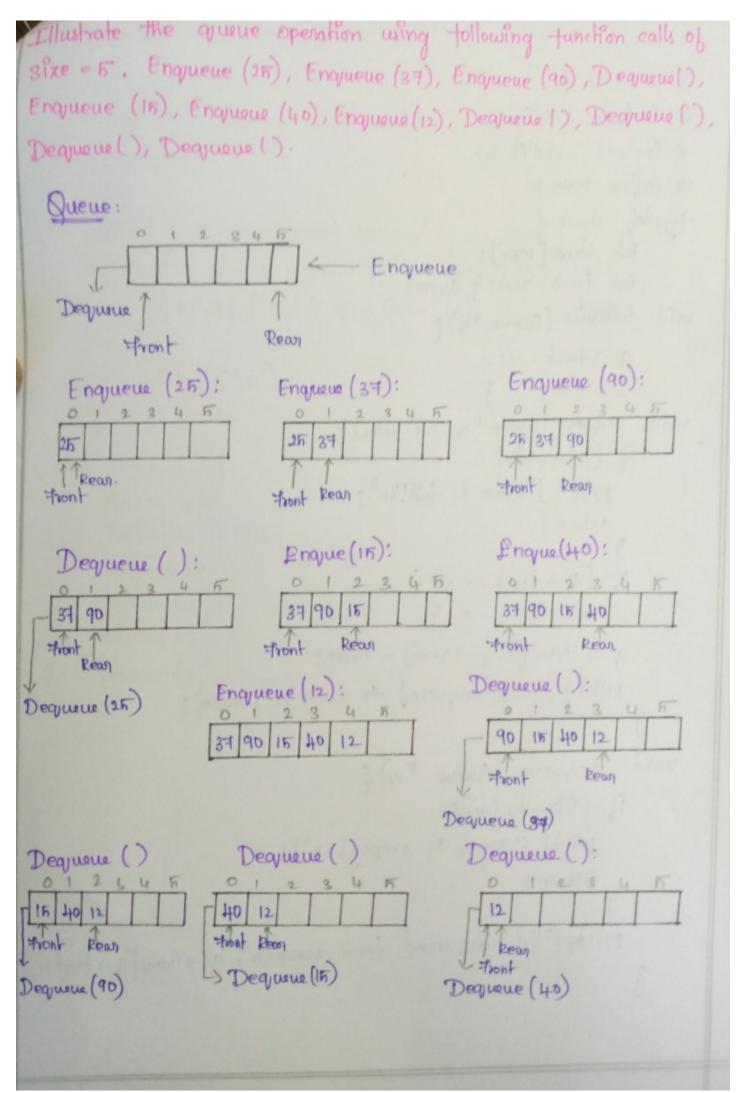
REG No: 192311375

COURSE CODE: CSHO389

COURSE NAME: DATA STRUCTURE DOR STACK OVERFLOW

Faculty NAME: Dr. Ashok Kuman

Submission Date: 21/08/24



```
1 Write a C program to implement Queue operations such as
 PNQUEUE, DEQUEUE and DISPLEY.
   # Include estato h>
   # Include estellib. h>
   of define MAX F
   typedel shurt of
         Int Hems [MAX]:
        Int front, roon; & Queue;
   void Postfallize (Queue *q) 1
        a/-> front = -1;
        a) -> wan = -1; }
  vold enqueue (Queue * ay, Int value) f
        1] ((sfull(a)))+
          possit f (" queue to full! (n);
          rehan :
        16 (a) -> front == -1) f
          q -> front = 0; }
        ay -> Thema [ ++ oy -> reso] - value;
        printy (" % d engrened to grave in", value);
  vold dequeue (Queue *a) of
       1 ( ( Frapty (4))
           printf ("Queue is empty! In");
       3 rehum ?
       partity (" " d dequeved from queve in", q - s Theme [ q - s front is];
```

```
vold display (Queue *q) &
 ib (is Empty (a)) of
     print [ " Queue & Empty! \n");
     return:
   printf (" Queue elements are: ");
    for (int i = q -> front , i = q -> rear , i++) &
          printf ("%d", q-) Ptems[i]);
      print + (" \n");
  3
int main () f
    Queue q;
    initialize (& qv);
   enqueue ()
   dequeue ()
   display ()
   return o;
```