DS labTest-1

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```
void enquene(int num)
{
  if(front==0 && rear==max-1)||(front==rear)
  printf("Quene is full");
  else
  {
   rear=(rear+1)%max;
   quene[rear]=num;
    if(front==-1)
    front=0;
  }
}
int dequene()
{
  int ele;
  if(front==-1 && rear==-1)
   return 0;
  else
 {
   ele=quene[front]
    if(front==rear)
   {
     front=-1;
     rear=-1;
   }
    else
   {
     front=(front+1)%max;
    }
    return ele;
  }
 }
```

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```
void display()
{
  int i;
  if(front==-1 && rear==-1) // (front==rear)
   printf("Queue is empty");
  else
{
   printf("Elements in queue");
   for(i=front; i<=rear; i++)
  {
    printf("%d", queue[i]);
   }
   printf("\n");
  }
 }

char name;
char date;
 int customer-in;
 printf("Enter name of customer");
 scanf("%s", &name);
 printf("Enter date of call");
 scanf("%s", & date);
 printf("Enter customer id");
 scanf("%d", &custome-id);
printf("customer details\n")
printf("customer name: %c", name);
printf(" No.of customers: %d (num);
printf(" Date of call: %c", date);
printf("customer id:%d", customer-id);
```

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```
int   ch(num1)
{
  for (i=0; i<n; i++)
{
   if (num1 == arr[i])
        return i;}
 }
 else
{
  printf("number not found\n");
  return 0;
 }
}
```

-> to count no.of calls

```
    if (rear > front)
    count = (rear - front);
   printf("number of elements in quene: %d\n", count);
```

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