

DS Lab Test-1

Question-3

```
int q[100]; int front = -1; int rear = -1;
void enq(int ele)
{
    if
```

```
#define size 100
int q[100]
int front = -1;
int rear = -1;
```

```
void enq(int ele)
{
    if
```

```
if (rear == size - 1)
{
```

```
    printf("Queue is full");
}
```

```
else if (front == -1 && rear == -1)
{
```

```
    front = 0;
    rear = 0;
```

```
    }
else
{
```

```
    rear = rear + 1;
```

```
    }
```

```
    q[rear] = ele;
```

```
}
```

post

```

int dq()
{
    int ele;
    if (front == -1 && rear == -1)
    {
        return -999;
    }
    else if (front == rear)
    {
        ele = q[front];
        front = -1;
        rear = -1;
        return ele ele;
    }
    else
    {
        ele = q[front];
        front = front + 1;
        return ele;
    }
}

```

3

```
int main(int argc, char** argv)
```

```
{
    int n;
    printf("Enter the number of calls: \n");
    scanf("%d", &n);
    char name[100];
    int ph[100];
    char id[100];
    int date[10];
    int ele;
    int ch;
    for(int i=0; i<n; i++)
```

```
{
    eng(i);
    printf("Enter the details of customer \n");
    getchar();
    scanf("%s", name[i]);
    getchar();
    scanf("%s", id[i]);
    scanf("%d", &ph[i]);
    scanf("%d", &date[i]);
}
```

```
for(int i=0; i<n; i++)
```

```
{
    do
```

```
{
    printf("Enter 0 to take a call \n");
    ele = dq();
    scanf("%d", &ch);
```


