

Lab 3

```
#include <stdio.h>
```

```
void insert (int n, int arr[n], int *f, int *b)
```

```
{  
    if (*b == n-1)
```

```
{
```

```
        printf("Queue overflow");
```

```
        return;
```

```
}
```

```
    printf("Enter the element to be inserted:");
```

```
    scanf("%d", &arr[*b]);
```

```
}
```

```
void del(int n, int arr[n], int *f, int *b)
```

```
{
```

```
    if (*f > *b)
```

```
{
```

```
        printf("Empty queue!");
```

```
        return;
```

```
}
```

```
    printf("The element deleted is: %d", arr[*f]);
```

```
}
```

```
void display(int n, int arr[n], int f, int b)
```

```
{
```

```
    if (f > b)
```

```
{  
        printf("The queue is empty!");
```

```
        return;
```

```
}
```

```
    for (int i = f; i <= b; i++)
```

```
        printf("%d ", arr[i]);
```

Date: / /

papergrid

```
void main()
```

```
{
```

```
int ch = 10, n;
```

```
printf("Enter the size of the queue ");
```

```
scanf("%d", &n);
```

```
int arr[n];
```

```
int j = -1, i = 0;
```

```
while (ch != 4)
```

```
{
```

```
printf("1] Insert Rear 2] Delete front 3] Display  
4] Exit ");
```

```
scanf("%d", &ch);
```

```
switch (ch)
```

```
{
```

```
case 1: insert(n, arr, &i, &j);  
break;
```

```
case 2: del(n, arr, &i, &j);  
break;
```

```
case 3: display(n, arr, i, j);  
break;
```

```
case 4: print break;
```

```
}
```

```
}
```

```
}
```

```
}
```