

Circular Queue

M T W T F S S	
Page No.:	YOUVA
Date:	

```

#define N 5
int front = -1, rear = -1;
void enqueue(int x) {
    if (front == -1 && rear == -1) {
        front = rear = 0;
        queue[rear] = x;
    } else if (rear == N-1) {
        else if ((rear+1)%N == front) {
            printf("Underflow");
        } else {
            rear = (rear+1)%N;
            queue[rear] = x;
        }
    }
}

void dequeue() {
    if (front == -1) {
        printf("Underflow");
    } else if (front == rear) {
        front = rear = -1;
    } else {
        front = (front+1)%N;
        queue[front] = item;
        printf("Deleted item is %d", item);
    }
}

void display() {
    if (front == -1) {
        printf("Underflow");
    } else {
        for (i=0; i<N; i++) {
            int p = front;
            while (1) {
                printf("%d", queue[p]);
                printf("There are the elements of queue");
            }
        }
    }
}
    
```

Output : Enter your choice : 1. enqueue 2. dequeue 3. display 4. exit

1
Enter element : 2

Enter your choice : 1. enqueue 2. dequeue 3. display 4. exit

2

Deleted element : 2

Enter your choice : 1. enqueue 2. dequeue 3. display 4. exit

3

Queue is empty

Enter your choice : 1. enqueue 2. dequeue 3. display 4. exit

4

~~Exiting~~

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