

```
#include <stdio.h>

#define MAX 5

int queue[MAX], front = -1, rear = -1;

void enqueue(int val) {
    if (rear == MAX - 1)
        printf("Overflow\n");
    else {
        if (front == -1) front = 0;
        queue[++rear] = val;
    }
}

void dequeue() {
    if (front == -1 || front > rear)
        printf("Underflow\n");
    else
        printf("Dequeued: %d\n", queue[front++]);
}

void display() {
    if (front == -1 || front > rear)
        printf("Queue Empty\n");
    else {
        printf("Queue: ");
        for (int i = front; i <= rear; i++)
            printf("%d ", queue[i]);
    }
}
```

```
        printf("\n");
```

```
    }
```

```
}
```

```
• int main() {
```

```
    enqueue(10);
```

```
    enqueue(20);
```

```
    enqueue(30);
```

```
    display();
```

```
    dequeue();
```

```
    display();
```

```
    return 0;
```

```
}
```

Queue: 10 20 30

Dequeued: 10

Queue: 20 30