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1BM10CS051

Dyushin Thenuan

```
#define size 5
int Queue[size];
int front = -1;
int rear = -1;
```

```
void enqueue(int x)
{
```

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

```
        printf("Queue is full\n");
```

```
    }
```

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

```
        front ++;
```

```
        rear ++;
```

```
        Queue[rear] = x;
```

```
    }
```

```
    else
```

```
    {
```

```
        rear ++;
```

```
        Queue[rear] = x;
```

```
    }
```

```
}
```

```
int Dequeue()
{
```

```
    int x;
```

```
    if (front == -1)
    {
```

```
    }
```

1BMISC5053

Dnyanesh Thakur

return -1;

}

else

{

x = Queue[front];

front++;

if (front > rear)

{

front = -1;

rear = -1;

}

return x;

}

}

void display()

{

int i;

if (front == -1)

printf("Queue is empty\n");

else

{

printf("The Queue is : \n");

for (i = front; i <= rear; i++)

printf("%d\n", Queue[i]);

}

}

1BM19CS053

Divyanshu Thonwa

```
int main()
{
```

```
    int i;
    int x;
    do {
```

```
        printf("In 1. Insert to Queue");
        printf("In 2. Delete from the Queue");
        printf("In 3. Display the content");
        printf("In 4. Exit\n");
        printf("Enter the option : ");
        scanf("%d", &i);
        scanf("%d", &i);
        switch(i)
        {
```

```
            case 1 : printf("Enter the element\n");
                     scanf("%d", &x);
                     enqueue(x);
                     break;
```

```
            case 2 : x = dequeue Dequeue();
                     if(x == -1)
                         printf("Queue is empty\n");
                     else
                         printf("Removed element from the queue\n");
                     break;
```

```
            case 3 : display();
                     break;
```

```
            case 4 : break;
```

```
    }
```

1BM19CS052

Dipankar Thakur

3 while (i != 4)
 return 0;

}