main.c

```c
#include <stdio.h>

int front=-1;
int rear=-1;

void insert(int n,int q[],int ele)
{if(rear==n-1)
 { printf("Queue overflow");}
 else
 { rear++;
   q[rear]=ele;
   if(front==-1)
    front++;}
}

int delete( int q[])
{ int ele;
  if(front==-1)
   printf("Queue underflow\n");
  else
  { ele=q[front];
    front++;
    if(front>rear)
    { front=-1;
      rear=-1; }
    return ele;
  }
 return -999;
}
```

```
 1. Insert to Queue
 2. Delete from the Queue
 3. Display Queue
 4. Exit
Enter the choice :1
Enter the element
1

 1. Insert to Queue
 2. Delete from the Queue
 3. Display Queue
 4. Exit
Enter the choice :1
Enter the element
2

 1. Insert to Queue
 2. Delete from the Queue
 3. Display Queue
 4. Exit
Enter the choice :1
Enter the element
3

 1. Insert to Queue
 2. Delete from the Queue
 3. Display Queue
 4. Exit
Enter the choice :1
Enter the element
4

 1. Insert to Queue
 2. Delete from the Queue
 3. Display Queue
 4. Exit
Enter the choice :1
```

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main.c

```c
#include <stdio.h>

int front=-1;
int rear=-1;

void insert(int n,int q[],int ele)
{if(rear==n-1)
 { printf("Queue overflow");}
 else
 { rear++;
   q[rear]=ele;
   if(front==-1)
    front++;}
}

int delete( int q[])
{ int ele;
  if(front==-1)
   printf("Queue underflow\n");
  else
  { ele=q[front];
    front++;
    if(front>rear)
    { front=-1;
      rear=-1; }
    return ele;
  }
 return -999;
}
```

```
 3. Display Queue
 4. Exit
Enter the choice :1
Enter the element
5

 1. Insert to Queue
 2. Delete from the Queue
 3. Display Queue
 4. Exit
Enter the choice :1
Enter the element
6
Queue overflow
 1. Insert to Queue
 2. Delete from the Queue
 3. Display Queue
 4. Exit
Enter the choice :3
12345
 1. Insert to Queue
 2. Delete from the Queue
 3. Display Queue
 4. Exit
Enter the choice :2
Removed Element : 1
 1. Insert to Queue
 2. Delete from the Queue
 3. Display Queue
 4. Exit
Enter the choice :2
Removed Element : 2
 1. Insert to Queue
 2. Delete from the Queue
 3. Display Queue
 4. Exit
Enter the choice :2
```

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main.c

```c
#include <stdio.h>

int front=-1;
int rear=-1;

void insert(int n,int q[],int ele)
{if(rear==n-1)
 { printf("Queue overflow");}
 else
 { rear++;
   q[rear]=ele;
   if(front==-1)
    front++;}
}

int delete( int q[])
{ int ele;
  if(front==-1)
   printf("Queue underflow\n");
  else
  { ele=q[front];
    front++;
    if(front>rear)
    { front=-1;
      rear=-1; }
    return ele;
  }
 return -999;
}
```

```
 2. Delete from the Queue
 3. Display Queue
 4. Exit
Enter the choice :2
Removed Element : 2
 1. Insert to Queue
 2. Delete from the Queue
 3. Display Queue
 4. Exit
Enter the choice :2
Removed Element : 3
 1. Insert to Queue
 2. Delete from the Queue
 3. Display Queue
 4. Exit
Enter the choice :2
Removed Element : 4
 1. Insert to Queue
 2. Delete from the Queue
 3. Display Queue
 4. Exit
Enter the choice :2
Removed Element : 5
 1. Insert to Queue
 2. Delete from the Queue
 3. Display Queue
 4. Exit
Enter the choice :2
Queue underflow
Queue is empty

 1. Insert to Queue
 2. Delete from the Queue
 3. Display Queue
 4. Exit
Enter the choice :4
```

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