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Beautify

Language C

main.c

```
1 #include <stdio.h>
2 #include <stdlib.h>
3 #define MAX 5
4 int front=0;
5 int rear=-1;
6 int queue[MAX];
7 void Enque(int);
8 int Deque();
9 void display();
10 int main(int argc, char **argv)
11 {
12     int option;
13     int item;
14     do{
15         printf("\n 1. Insert to Queue (EnQueue)");
16         printf("\n 2. delete from the Queue (DeQueue)");
17         printf("\n 3. Display the content ");
18         printf("\n 4. Exit\n");
19         printf("Enter the option :");
20         scanf("%d",&option);
21         switch(option)
22         {
23             case 1: printf("Enter the element\n");
24                     scanf("%d",&item);
25                     Enque(item);
26                     break;
27             case 2: item=Deque();
28                     if(item!=-1)
29                         printf("Queue is empty\n");
30                     else
31                         printf("Removed element from the queue %d",item);
32                     break;
33             case 3: display();
34                     break;
35             case 4: exit(0);
36                     }
37         } while (option!=4);
```

input

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Language C

main.c

```
33 case 3: display();
34 break;
35 case 4: exit(0);
36 }
37 } while (option!=4);
38 return 0;
39 }
40 void Enque(int ele)
41 {
42     if (rear==MAX-1)
43         printf("Queue is full\n");
44     else
45     {
46         rear++;
47         queue[rear]=ele;
48     }
49 }
50 }
51 int Deque()
52 {
53     int item;
54     if(front == -1)
55         return -1;
56     else
57     {
58         item=queue[front];
59         front++;
60         if(front>rear)
61         {
62             front=-1;
63             rear=-1;
64         }
65         return item;
66     }
67 }
68 }
69 void display()
70 {
```

input



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Language C

main.c

```
44 else
45 {
46 rear++;
47 queue[rear]=ele;
48 }
49 }
50 }
51 int Deque()
52 {
53 int item;
54 if(front == -1)
55 return -1;
56 else
57 {
58 item=queue[front];
59 front++;
60 if(front>rear)
61 {
62 front=-1;
63 rear=-1;
64 }
65 return item;
66 }
67 }
68 }
69 void display()
70 {
71 int i;
72 if(front==-1)
73 printf("Queue is empty\n");
74 else
75 {
76 printf("\n Queue contents:");
77 for(i=front;i<=rear;i++)
78 printf("%d", queue[i]);
79 }
80 }
```

input

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main.c

44 else

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Language C

input

1. Insert to Queue (EnQueue)

2. delete from the Queue (DeQueue)

3. Display the content

4. Exit

Enter the option :1

Enter the element

57

1. Insert to Queue (EnQueue)

2. delete from the Queue (DeQueue)

3. Display the content

4. Exit

Enter the option :2

Removed element from the queue 57

1. Insert to Queue (EnQueue)

2. delete from the Queue (DeQueue)

3. Display the content

4. Exit

Enter the option :3

Queue is empty

1. Insert to Queue (EnQueue)

2. delete from the Queue (DeQueue)

3. Display the content

4. Exit

Enter the option :4

...Program finished with exit code 0

Press ENTER to exit console.

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