

C:\Users\Nikita\Desktop\programs\Linearqueue.cpp - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help



Project Classes

Linearqueue.cpp

```
1  #include<stdio.h>
2  #include<stdlib.h>
3  #define QUE_SIZE 5
4  int item,front=0,rear=-1,q[5];
5  void insertrear()
6  {
7      if(rear==QUE_SIZE-1)
8      {
9          printf("Queue Overflow\n");
10         return;
11     }
12     rear=rear+1;
13     q[rear]=item;
14 }
15 int deletefront()
16 {
17     if(front>rear)
18     {
19         front=0;
20         rear=-1;
21         return -1;
22     }
23     return q[front++];
24 }
25 void displayQ()
26 {
27     int i;
28     if(front>rear)
29     {
30         printf("Queue is empty\n");
31         return;
32     }
33     printf("Contents of the queue are:\n");
34     for(i=front;i<=rear;i++)
35     {
36         printf("%d\n",q[i]);
37     }
38 }
39
40 int main()
```

Type here to search



C:\Users\Nikita\Desktop\programs\Linearqueue.cpp - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help



Project Classes

Linearqueue.cpp

```
29 {
30     printf("Queue is empty\n");
31     return;
32 }
33 printf("Contents of the queue are:\n");
34 for(i=front; i<=rear; i++)
35 {
36     printf("%d\n", q[i]);
37 }
38 }
39
40 int main()
41 {
42     int choice;
43     for(;;)
44     {
45         printf("\n1:Insertrear\n2:Deletefront\n3:Display\n4:Exit\n");
46         printf("Enter the choice\n");
47         scanf("%d", &choice);
48         switch(choice)
49         {
50             case 1: printf("Enter the item to be inserted\n");
51                     scanf("%d", &item);
52                     insertrear();
53                     break;
54
55             case 2: item=deletefront();
56                     if(item==--1)
57                         printf("Queue is empty\n");
58                     else
59                         printf("Item deleted:%d\n", item);
60                     break;
61
62             case 3: displayQ();
63                     break;
64
65             default: exit(0);
66         }
67     }
68 }
```

Type here to search



C:\Users\Nikita\Desktop\programs\Linearqueue.exe

40

1:Insertrear

2:Deletefront

3:Display

4:Exit

Enter the choice

1

Enter the item to be inserted

50

1:Insertrear

2:Deletefront

3:Display

4:Exit

Enter the choice

3

Contents of the queue are:

10

20

30

40

50

1:Insertrear

2:Deletefront

3:Display

4:Exit

Enter the choice

1

Enter the item to be inserted

60

Queue Overflow

1:Insertrear

2:Deletefront

3:Display

4:Exit

Enter the choice



Type here to search



12:37

14-10-2020



C:\Users\Nikita\Desktop\programs\Linearqueue.exe

```
1:Insertrear  
2:Deletefront  
3:Display  
4:Exit
```

Enter the choice

1

Enter the item to be inserted

10

```
1:Insertrear  
2:Deletefront  
3:Display  
4:Exit
```

Enter the choice

1

Enter the item to be inserted

20

```
1:Insertrear  
2:Deletefront  
3:Display  
4:Exit
```

Enter the choice

1

Enter the item to be inserted

30

```
1:Insertrear  
2:Deletefront  
3:Display  
4:Exit
```

Enter the choice

1

Enter the item to be inserted

40

```
1:Insertrear  
2:Deletefront  
3:Display  
4:Exit
```



Type here to search



ENG

12:37

14-10-2020

