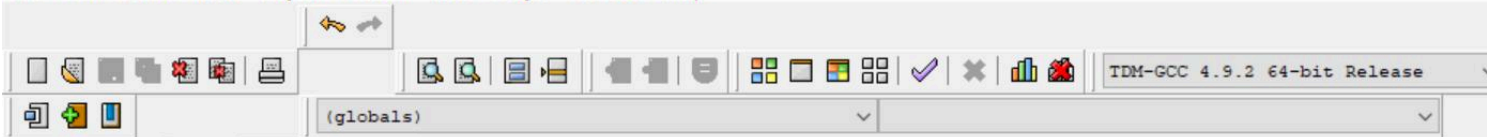


C:\Users\Nikita\Desktop\programs\circularqueue.cpp - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

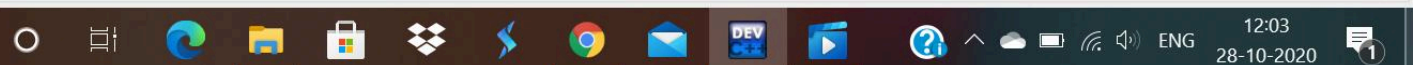


Project Classes

circularqueue.cpp

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

Type here to search





Project Classes

circularqueue.cpp

```
32 return;
33 }
34 f=front;
35 printf("Contents of queue \n");
36 for(i=1;i<=count;i++)
37 {
38     printf("%d\n",q[f]);
39     f=(f+1)%QUE_SIZE;
40 }
41 }
42 int main()
43 {
44     int choice;
45
46
47     for(;;)
48     {
49         printf("\n1:insertrear\n2:deletefront\n3:display\n4:exit\n");
50         printf("enter the choice\n");
51         scanf("%d",&choice);
52
53         switch(choice)
54         {
55             case 1:printf("enter the item to be inserted\n");
56                     scanf("%d",&item);
57                     insertrear();
58                     break;
59             case 2:item=deletefront();
60                     if(item==-1)
61                         printf("queue is empty\n");
62                     else
63                         printf("item deleted =%d\n",item);
64                     break;
65             case 3:displayq();
66                     break;
67             default:exit(0);
68         }
69     }
70 }
71 }
```



Type here to search



12:03

28-10-2020



C:\Users\Nikita\Desktop\programs\circularqueue.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
3
queue overflow
```

```
1:insertrear
2:deletefront
3:display
4:exit
```



Type here to search



12:09
28-10-2020

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

```
1:insertrear  
2:deletefront  
3:display  
4:exit  
enter the choice  
2  
item deleted =10
```

```
1:insertrear  
2:deletefront  
3:display  
4:exit  
enter the choice  
1  
enter the item to be inserted  
5
```

```
1:insertrear  
2:deletefront  
3:display  
4:exit  
enter the choice  
3  
Contents of queue  
20  
30  
5
```

```
1:insertrear  
2:deletefront  
3:display  
4:exit  
enter the choice
```



Type here to search



ENG

12:09
28-10-2020

