q.c - Code::Blocks 20.03

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```
Start here X gcd.c X q.c X
     1
           #include<stdio.h>
     2
          #include<stdlib.h>
     3
          #define Que Size 3
          int item, front=0, rear=-1, q[10];
     4
     5
          void insertrear()
     6
        日(
     7
               if (rear == Que Size-1)
     8
                   printf("Queue Overflow\n");
     9
    10
                   return;
    11
    12
               rear+=1;
    13
               g[rear]=item;
          LI
    14
    15
         int deletefront()
    16
         B(
    17
               if (front>rear)
    18 日
    19
                   front=0;
    20
                   rear=-1;
    21
                   return -1;
    22
    23
               return q[front++];
          LI
    24
    25
          void display()
    26
        □ (
    27
              int i;
    28
               if (front>rear)
    29
    30
                   printf("Queue is Empty\n");
    31
                   return;
    32
    33
               printf("contents of queue\n");
    34
               for(i=front;i<=rear;i++)</pre>
    35
                  printf("%d\n",q[i]);
    36
    37
```

```
39
          void main()
    40
        E(
    41
              int choice;
    42
              for (;;)
    43
        44
                   printf("\n 1:Insertion\n 2:Deletion\n 3:Display\n 4:Exit\n");
    45
                  printf("Enter your choice\n");
    46
                   scanf ("%d", &choice);
    47
                   switch (choice)
    48
        Ė
                       case 1 : printf("Enter item to be inserted\n");
    49
    50
                                scanf("%d", &item);
    51
                                insertrear();
    52
                                break;
    53
                       case 2 :item=deletefront();
    54
                               if(item==-1)
    55
        56
                                   printf("Queue is empty\n");
    57
    58
                               else
    59
        E
                               1
    60
                                    printf("Item deleted=%d\n",item);
    61
    62
                               break;
    63
                       case 3 : display();
    64
                                break;
    65
                       default : exit(0);
    66
                 )
    67
              1
          )
    68
    69
<
```

```
1:Insertion
2:Deletion
3:Display
4:Exit
Enter your choice
Queue is empty
1:Insertion
2:Deletion
3:Display
4:Exit
Enter your choice
Queue is Empty
1:Insertion
2:Deletion
3:Display
4:Exit
Enter your choice
Enter item to be inserted
12
1:Insertion
2:Deletion
3:Display
4:Exit
Enter your choice
Enter item to be inserted
13
1:Insertion
2:Deletion
3:Display
4:Exit
Enter your choice
1
Enter item to be inserted
14
```

```
1:Insertion
2:Deletion
3:Display
4:Exit
Enter your choice
Enter item to be inserted
15
Queue Overflow
1:Insertion
2:Deletion
3:Display
4:Exit
Enter your choice
contents of queue
12
13
14
1:Insertion
2:Deletion
3:Display
4:Exit
Enter your choice
Item deleted=12
1:Insertion
2:Deletion
3:Display
4:Exit
Enter your choice
Process returned 0 (0x0)
                          execution time : 48.751 s
Press any key to continue.
```