

main.c

```

1 #include<stdio.h>
2 #include<stdlib.h>
3 #define maxsize 5
4 void insert();
5 void delete();
6 void display();
7 int front = -1, rear = -1;
8 int queue[maxsize];
9 void main ()
10 {
11     int choice;
12     while(choice != 4)
13     {
14         printf("\n*****Main Menu*****\n");
15         printf("1.Insert an element\n2.Delete an element\n");
16         printf("3.Display the queue\n4.Exit\n");
17         printf("\nEnter your choice ?");
18         scanf("%d",&choice);
19         switch(choice)
20         {
21             case 1:
22                 insert();
23                 break;
24             case 2:
25                 delete();
26                 break;
27             case 3:
28                 display();
29                 break;
30             case 4:
31                 exit(0);
32                 break;
33             default:
34                 printf("\nEnter valid choice?\n");
35         }
36     }

```

Run

Output

23
Value inserted
*****Main Menu*****

1.Insert an element
2.Delete an element
3.Display the queue
4.Exit

Enter your choice ?1
Enter the element
3445

Value inserted
*****Main Menu*****

1.Insert an element
2.Delete an element
3.Display the queue
4.Exit

Enter your choice ?3
printing values . . .

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```

main.c

66     printf( "\nUNDERFLOW\n" );
67     return;
68 }
69 }
70 else
71 {
72     item = queue[front];
73     if(front == rear)
74     {
75         front = -1;
76         rear = -1;
77     }
78     else
79     {
80         front = front + 1;
81     }
82     printf("\nValue deleted ");
83 }
84
85
86 }
87
88 void display()
89 ~ {
90     int i;
91     if(rear == -1)
92     {
93         printf("\nEmpty queue\n");
94     }
95     else
96     {
97         printf("\nprinting values ..... \n");
98         for(i=front;i<=rear;i++)
99     {
100        printf("\n%d\n",queue[i]);
101    }
102 }

printf(" %d\n",queue[1]);
3445
*****Main Menu*****

```

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Run

Output

▲ 23
Value inserted

*****Main Menu*****

- 1.Insert an element
- 2.Delete an element
- 3.Display the queue
- 4.Exit

Enter your choice ?1
Enter the element
3445

Value inserted

*****Main Menu*****

- 1.Insert an element
- 2.Delete an element
- 3.Display the queue
- 4.Exit

Enter your choice ?3
printing values

12

12

23

3445

*****Main Menu*****