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Open  sh.c  Save  -  +  x
~/Desktop

1 #include <stdio.h>
2 int Q[100], FRONT = -1, REAR = -1, i, n, x, choice;
3 void insert();
4 void delete();
5 void display();
6
7 void main()
8 {
9     printf("Enter the size of Queue");
10    scanf("%d", &n);
11    do
12    {
13        printf("\n Queue Operation available: \n");
14        printf("\t1.Insert \t2.Delete \t3.Display \t4.Exit \n");
15        printf("\n Enter your choice: ");
16        scanf("%d", &choice);
17        switch (choice)
18        {
19            case 1:
20                insert();
21                break;
22            case 2:
23                delete();
24                break;
25            case 3:
26                display();
27                break;
28            case 4:
29                printf("Exit: Program Finished !! ");
30                break;
31            default:
32                printf("Enter a valid choice \n");
33                break;
34        }
35    } while (choice != 4);
36 }
37
38 void insert()
39 {
40     if (REAR >= n - 1)
41     {
42         printf(" Queue Overflow ! \n");
43     }
44     else
45     {
46         printf(" Enter the element to insert: ");
47         scanf("%d", &x);
48         REAR++;
49         Q[REAR] = x;
50         if (FRONT == -1)
51         {
52             FRONT = 0;
53         }
54     }
55 }
56
57 void delete ()
58 {
59     if (FRONT == -1)
60     {
61         printf(" Queue Underflow ! \n");
62     }
63     else
64     {
65         printf(" The deleted element is: %d \n", Q[FRONT]);
66         if (FRONT == REAR)
67             FRONT = REAR = -1;
68         else
69             FRONT++;
70     }
71 }
72
73 void display()
74 {
75     if (REAR < 0)
76     {
77         printf(" Queue is empty ! \n");
78     }
79     else
80     {
81         printf(" The elements in the Queue are: \n");
82         for (i = FRONT; i < n; i++)
83         {
84             printf(" %d ", Q[i]);
85         }
86         printf("\n");
87     }
88 }
```

[illegible]