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## IMPLEMENTATION OF QUEUE USING LINK LIST

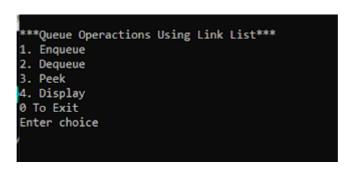
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```
1. /*
 2. implemaintaction Of Queue using Link list
 4. #include<stdio.h>
 5. #include<stdlib.h>
 6.
 7. struct node{
 8.
            int data;
 9.
            struct node *next;
10. };
11.
12. struct node *front=0;
13. struct node *rear=0;
14.
15. //Function Declaraction
16. void Enqueue();
17. void Dequeue();
18. void Peek();
19. void Display();
20.
21. //Driver program
22. int main(){
23.
            int choice;
24.
            do{
25.
                    printf("\n***Queue Operactions Using Link List***\n");
26.
                    printf("1. Enqueue\n");
27.
                    printf("2. Dequeue\n");
28.
                    printf("3. Peek\n");
```

```
29.
                     printf("4. Display\n");
30.
                     printf("0 To Exit\n");
31.
                     printf("Enter choice ");
                     scanf("%d",&choice);
32.
33.
                     switch(choice){
34.
35.
                             case 1:
36.
                                      Enqueue();
37.
                                      break;
38.
                              case 2:
39.
                                      Dequeue();
40.
                                      break;
41.
                              case 3:
42.
                                      Peek();
43.
                                      break;
44.
                              case 4:
45.
                                      Display();
46.
                                      break;
47.
                             default:
48.
                                      printf("\n!Wrong Choice!\n");
                     }
49.
50.
            }while(choice!=0);
51.
            return 0;
52. }
53.
54. //Enqueue Operaction
55. void Enqueue(){
56.
            struct node *newnode;
57.
            newnode=(struct node*)malloc(sizeof(struct node));
58.
            printf("Enter Data ");
59.
            scanf("%d",&newnode->data);
60.
            newnode->next=0;
61.
            if(front==0&&rear==0){
62.
                     front=rear=newnode;
63.
            }
64.
            else{
65.
                     rear->next=newnode;
66.
                     rear=newnode;
67.
            }
68. }
69.
70. //Dequeue Operaction
71. void Dequeue(){
```

```
72.
             struct node *temp;
 73.
             if(front==0 && rear==0){
 74.
                      printf("\nQueue Is Empty\n");
 75.
             }
 76.
             else{
 77.
                      temp=front;
 78.
                      front=front->next;
 79.
                      free(temp);
 80.
                      printf("\n Deleted Successfully\n");
 81.
             }
 82. }
 83.
 84. //Peek Operaction
 85. void Peek(){
 86.
             if(front==0 && rear==0){
 87.
                      printf("\nQueue Is Empty\n");
 88.
             }
 89.
             else{
                      printf("\nFront Data Is %d",front->data);
 90.
 91.
             }
 92. }
 93.
94. //Displays The Queue
 95. void Display(){
 96.
             struct node *temp;
97.
             temp=front;
             if(front==0 && rear==0){
98.
99.
                      printf("\nQueue Is Empty\n");
100.
             }
101.
             else{
102.
                      printf("\n");
103.
                      while(temp!=0){
104.
                              printf("%d ",temp->data);
105.
                              temp=temp->next;
106.
                      }
107.
             }
108. }
```

**OUTPUT** 



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