

DSLAB/code at master · Derek-S/ · xMeet · abu-npkp-kbn · xReplit - C Online Compiler and IDE · x+replit/languages/C

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Filesmain.c

main.c

```
1 #include <stdio.h>
2 #include <stdlib.h>
3 #define size 3
4
5 int front=-1;
6 int rear=-1;
7
8
9 void insert(int,int []);
10 int delete(int []);
11 void display(int []);
12 int main()
13 {
14     int ch,queue[size];
15     int item;
16     do{
17         printf("\n\n 1. Insert to Queue: ");
18         printf("\n 2. delete from the Queue: ");
19         printf("\n 3. Display Queue ");
20         printf("\n 4. Exit\n");
21         printf("Enter the option :");
22         scanf("%d",&ch);
23         switch(ch)
24         {
25             case 1: printf("Enter the element\n");
26                     scanf("%d",&item);
27                     insert(item,queue);
28                     break;
29             case 2: item=delete(queue);
30                     if(item==--9999)
31                         printf("Queue undreflow\n");
32                     else
33                         printf("Removed element: %d",item);
34                     break;
35             case 3: display(queue);
36                     break;
37             case 4: exit(0);
```

clang-7 -pthread -lm -o main main.c

./main

1. Insert to Queue:
2. delete from the Queue:
3. Display Queue
4. Exit
Enter the option :1
Enter the element
1
1. Insert to Queue:
2. delete from the Queue:
3. Display Queue
4. Exit
Enter the option :1
Enter the element
2
1. Insert to Queue:
2. delete from the Queue:
3. Display Queue
4. Exit
Enter the option :1
Enter the element
3
1. Insert to Queue:
2. delete from the Queue:
3. Display Queue
4. Exit
Enter the option :1
Enter the element

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22         scanf("%d",&ch);
23         switch(ch)
24         {
25             case 1: printf("Enter the element\n");
26                     scanf("%d",&item);
27                     insert(item,queue);
28                     break;
29             case 2: item=delete(queue);
30                     if(item==--9999)
31                         printf("Queue undreflow\n");
32                     else
33                         printf("Removed element: %d",item);
34                     break;
35             case 3: display(queue);
36                     break;
37             case 4: exit(0);
```

1. Insert to Queue:
2. delete from the Queue:
3. Display Queue
4. Exit
Enter the option :1
Enter the element
4
Queue overflow
1. Insert to Queue:
2. delete from the Queue:
3. Display Queue
4. Exit
Enter the option :3
123
1. Insert to Queue:
2. delete from the Queue:
3. Display Queue
4. Exit
Enter the option :2
Removed element: 1
1. Insert to Queue:
2. delete from the Queue:
3. Display Queue
4. Exit
Enter the option :2
Removed element: 2
1. Insert to Queue:
2. delete from the Queue:
3. Display Queue
4. Exit
Enter the option :3
3

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27                     insert(item,queue);
28                     break;
29             case 2: item=delete(queue);
30                     if(item!=-9999)
31                         printf("Queue undreflow\n");
32                     else
33                         printf("Removed element: %d",item);
34                     break;
35             case 3: display(queue);
36                     break;
37             case 4: exit(0);
```

```
1. Insert to Queue:
2. delete from the Queue:
3. Display Queue
4. Exit
Enter the option :3
3

1. Insert to Queue:
2. delete from the Queue:
3. Display Queue
4. Exit
Enter the option :1
Enter the element
4

1. Insert to Queue:
2. delete from the Queue:
3. Display Queue
4. Exit
Enter the option :3
34

1. Insert to Queue:
2. delete from the Queue:
3. Display Queue
4. Exit
Enter the option :1
Enter the element
5

1. Insert to Queue:
2. delete from the Queue:
3. Display Queue
4. Exit
Enter the option :2
```

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11 void display(int []);
12 int main()
13 {
14     int ch,queue[size];
15     int item;
16     do{
17         printf("\n\n 1. Insert to Queue: ");
18         printf("\n 2. delete from the Queue: ");
19         printf("\n 3. Display Queue ");
20         printf("\n 4. Exit\n");
21         printf("Enter the option :");
22         scanf("%d",&ch);
23         switch(ch)
24         {
25             case 1: printf("Enter the element\n");
26                     scanf("%d",&item);
27                     insert(item,queue);
28                     break;
29             case 2: item=delete(queue);
30                     if(item!=-9999)
31                         printf("Queue undreflow\n");
32                     else
33                         printf("Removed element: %d",item);
34                     break;
35             case 3: display(queue);
36                     break;
37             case 4: exit(0);
```

```
5

1. Insert to Queue:
2. delete from the Queue:
3. Display Queue
4. Exit
Enter the option :2
Removed element: 3

1. Insert to Queue:
2. delete from the Queue:
3. Display Queue
4. Exit
Enter the option :2
Removed element: 4

1. Insert to Queue:
2. delete from the Queue:
3. Display Queue
4. Exit
Enter the option :2
Removed element: 5

1. Insert to Queue:
2. delete from the Queue:
3. Display Queue
4. Exit
Enter the option :2
Queue undreflow

1. Insert to Queue:
2. delete from the Queue:
3. Display Queue
4. Exit
Enter the option :
```