

prateek-cyber/DS-Lab-programs

Online C Compiler - online editor

OnlineGDB beta

online compiler and debugger for c/c++

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main.c

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```
1- /*=====
2
3         Online C Compiler.
4         Code, Compile, Run and Debug C program online.
5         Write your code in this editor and press "Run" button to compile and execute it.
6
7         =====/
8
9 #include<stdio.h>
10 #include<conio.h>
11 #define qsize 3
12 int f=0,r=-1,ch;
13 int item,q[10];
14
15 int isfull()
16 {
17     return(r==qsize-1)?1:0;
18 }
19 int isempty()
20 {
21     return(f>r)?1:0;
22 }
23 void insert_rear()
24 {
25     if(isfull())
26     {
27         printf("queue overflow\n");
28         return;
29     }
30     r=r+1;
31     q[r]=item;
32 }
33 void delete_front()
```

Run

Debug

Stop

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Save

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Language C

Scanned with CamScanner

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```
main.c
32 }
33 void delete_front()
34 {
35     if(isempty())
36     {
37         printf("queue empty\n");
38         return;
39     }
40     printf("item deleted is %d\n",q[(f++)]);
41     if(f>r)
42     {
43         f=0;
44         r=-1;
45     }
46 }
47 void insert_front()
48 {
49     if(f!=0)
50     {
51         f=f-1;
52         q[f]=item;
53         return;
54     }
55     else if((f==0)&&(r==1))
56     {
57         q[++(r)]=item;
58         return;
59     }
60     else
61         printf("insertion not possible\n");
62 }
63 void delete_rear()
64 {
```

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Run Debug Stop Share Save Beautify

Language C

main.c

```
64- void delete_rear()
65- {
66-     if(isempty())
67-     {
68-         printf("queue is empty\n");
69-         return;
70-     }
71-     printf("item deleted is %d\n",q[(r)--]);
72-     if(f>r)
73-     {
74-         f=0;
75-         r=-1;
76-     }
77- }
78- void display()
79- {
80-     int i;
81-     if(isempty())
82-     {
83-         printf("queue empty\n");
84-         return;
85-     }
86-     for(i=f;i<=r;i++)
87-         printf("%d\n",q[i]);
88- }
89- void main()
90- {
91-
92-     for(;;)
93-     {
94-         printf("1.insert_rear\n2.insert_front\n3.delete_rear\n4.delete_front\n5.display\n6.exit\n");
95-         printf("enter choice\n");
```



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```
main.c
87 }
88 void main()
89 {
90
91
92 for(;;)
93 {
94     printf("1.insert_rear\n2.insert_front\n3.delete_rear\n4.delete_front\n5.display\n6.exit\n");
95     printf("enter choice\n");
96     scanf("%d",&ch);
97     switch(ch)
98     {
99         case 1:printf("enter the item\n");
100                scanf("%d",&item);
101                insert_rear();
102                break;
103         case 2:printf("enter the item\n");
104                scanf("%d",&item);
105                insert_front();
106                break;
107         case 3:delete_rear();
108                break;
109         case 4:delete_front();
110                break;
111         case 5:display();
112                break;
113         default:exit(0);
114     }
115 }
116
117 }
118
119 }
```

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1.insert_rear
2.insert_front
3.delete_rear
4.delete_front
5.display
6.exit
enter choice
1
enter the item
10
1.insert_rear
2.insert_front
3.delete_rear
4.delete_front
5.display
6.exit
enter choice
1
enter the item
20
1.insert_rear
2.insert_front
3.delete_rear
4.delete_front
5.display
6.exit
enter choice
1
enter the item
30
1.insert_rear
2.insert_front
3.delete_rear
4.delete_front
5.display
6.exit

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enter choice
5
10
20
30
1.insert_rear
2.insert_front
3.delete_rear
4.delete_front
5.display
6.exit
enter choice
4
item deleted is 10
1.insert_rear
2.insert_front
3.delete_rear
4.delete_front
5.display
6.exit
enter choice
3
item deleted is 30
1.insert_rear
2.insert_front
3.delete_rear
4.delete_front
5.display
6.exit
enter choice
2
enter the item
65
1.insert_rear
2.insert_front
3.delete_rear

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```
6.exit
enter choice
3
item deleted is 30
1.insert_rear
2.insert_front
3.delete_rear
4.delete_front
5.display
6.exit
enter choice
2
enter the item
65
1.insert_rear
2.insert_front
3.delete_rear
4.delete_front
5.display
6.exit
enter choice
5
65
20
1.insert_rear
2.insert_front
3.delete_rear
4.delete_front
5.display
6.exit
enter choice
6
...Program finished with exit code 0
Press ENTER to exit console.
```

