

## Queue in C

Void main ()

front

rear

queue [5]

0	12
1	<del>12</del>
2	
3	
4	

choice

choic != 4  
1 != 4 ✓  
2 != 4 ✓  
3 != 4

switch (1)(2)(3)

insert()  
delete()  
display()

insert()

item

① if (rear == maxsize - 1)  
-1 == 5 - 1  
-1 == 4 ✗

else if (front == -1 && rear == -1)  
-1 == -1 && -1 == -1 ✓

front = 0  
rear = 0

queue[0] = 12

delete()

③ item

if (0 == -1 || 0 > 1) ✗  
else  
item = queue[0]  
if (0 == 1) ✗  
else  
front = 0 + 1  
= 1

② if (0 == 5 - 1)  
0 == 4 ✗  
else if (0 == -1 && 0 == -1) ✗

else  
rear = rear + 1  
= 0 + 1  
= 1  
queue[1] = 20

output

main menu

- 1) insert an element
- 2) delete an element
- 3) Display the queue
- 4) exit.

enter your choice : 1  
enter the element : 12  
value inserted.

enter your choice : 1  
enter the element - 20  
value inserted.  
enter your choice - 2  
value deleted.

enter your choice 3  
printing values  
12  
enter your choice - 4  
exit.

④ display c)

i 2

if (i == -1) X

else

i <= rear

1 <= 1 ✓

2 <= 1 X

print queue [i]