```
Online C Compiler.
         Code, Compile, Run and Debug C program online.
Write your code in this editor and press "Run" button to compile and execute it.
#include<stdio.h>
int q[10];
int f,r;
void enqueueFront(int a)
{
  int i;
  if(r+1 == 10)
    printf("\nQ Full");
  else
  {
    if(r == -1) //first element
      f = 0;
    for(i=r;i>=0;i--) //shifitng the elements so that 0th position will be made free
      q[i+1] = q[i];
    q[i+1] = a; //value is enqueued to 0th place
    r = r + 1;
  }
}
void enqueueRear(int a)
```

{

if(r+1 == 10)

```
printf("\nQ Full");
  else
  {
    if(r == -1) //firts elemnt
      f = 0;
    q[r+1] = a; //increasing the rear value
    r = r + 1;
 }
}
void dequeueFront()
{
  int i;
  if(f == -1)
    printf("\nQ is empty");
  else
  {
    printf("\n%d %d %d",f,r,q[0]);
    for(i=0;i<r;i++) //shift
      q[i] = q[i+1];
    }
    r = r - 1;
    if(r == -1) //q is empty so f = -1
      f = -1;
 }
}
void dequeueRear()
{
  int i;
  if(f == -1)
```

```
printf("\nQ is empty");
  else
  {
    printf("\n%d %d %d",f,r,q[r]);
    r = r - 1;
    if(r == -1)
      f = -1;
 }
}
int main()
{
 f = r = -1;
  enqueueFront(10);
  enqueueFront(20);
  enqueueFront(30);
  enqueueFront(40);
  dequeueRear();
  dequeueRear();
  dequeueFront();
  dequeueFront();
  dequeueFront();
  dequeueFront();
  return 0;
}
```