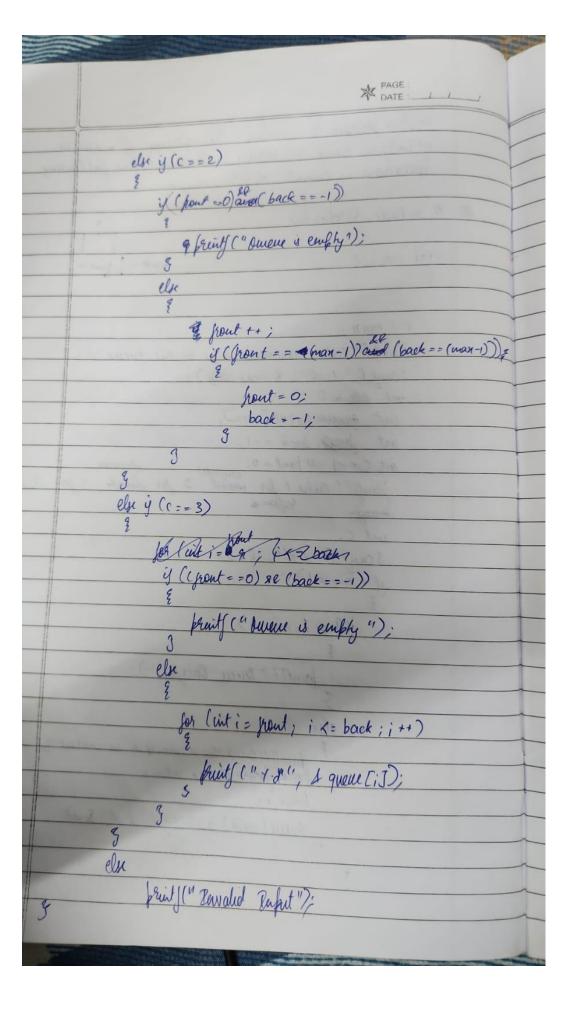
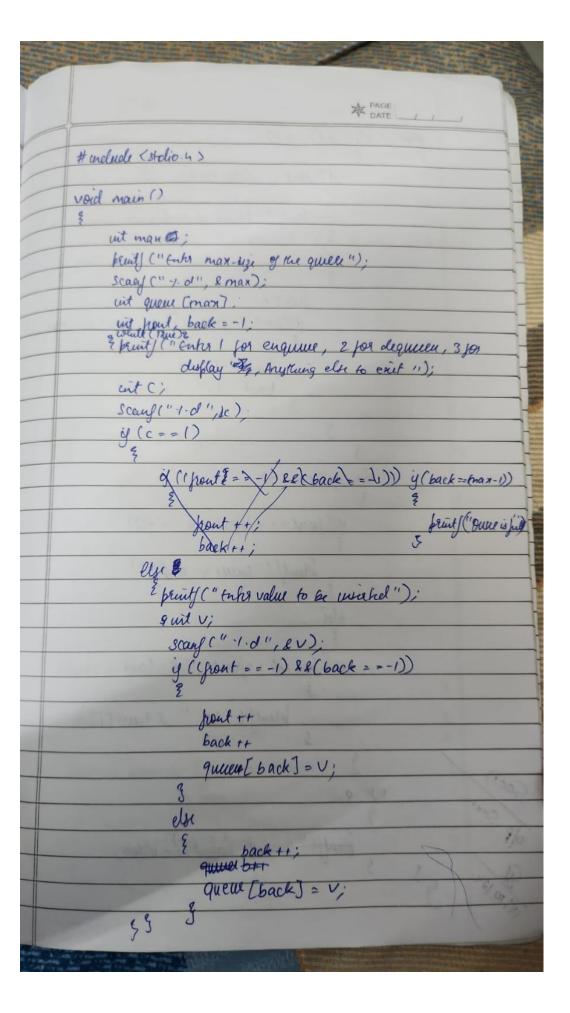
```
#include <stdio.h>
void main()
    int max;
    printf("enter maximum size of queue:");
    scanf("%d",&max);
    int queue[max];
    int front=-1;
    int back=-1;
    while(2>0)
    {
        printf("Enter 1 for enqueue, 2 for dequeue, 3 for
display : ");
        int c;
        scanf("%d",&c);
        if(c==1)
        {
            if(back==(max-1))
            {
                printf("Queue is full\n");
            else
            {
                printf("Enter element:");
                int v;
                scanf("%d",&v);
                if ((front==-1)&&(back==-1))
                {
                    front++;
                    queue[++back]=v;
                else
                    queue[++back]=v;
            }
        else if(c==2)
```

```
if ((front==-1)&&(back==-1))
    {
        printf("queue is empty\n");
    else{
        front++;
        if((front==(max-1))&&(back==(max-1)))
        {
            front=-1;
            back=-1;
        }
    }
}
else if(c==3)
{
    if ((front==-1)&&(back==-1))
        printf("queue is empty\n");
    }
    else
    {
        for(int i=front; i<=back;i++)</pre>
        {
            printf("%d ",queue[i]);
        printf("\n");
    }
else
    break;
```

```
cd "c:\Users\bmsce\Desktop\" ; if ($?) { gcc sam.c -o sam } ; if ($?) { .\sam }
enter maximum size of queue:5
Enter 1 for enqueue, 2 for dequeue, 3 for display : 1
Enter element:1
Enter 1 for enqueue, 2 for dequeue, 3 for display : 1
Enter element:2
Enter 1 for enqueue, 2 for dequeue, 3 for display : 1
Enter element:3
Enter 1 for enqueue, 2 for dequeue, 3 for display : 1
Enter element:4
Enter 1 for enqueue, 2 for dequeue, 3 for display : 1
Enter element:5
Enter 1 for enqueue, 2 for dequeue, 3 for display : 1
Queue is full
Enter 1 for enqueue, 2 for dequeue, 3 for display : 3
1 2 3 4 5
Enter 1 for enqueue, 2 for dequeue, 3 for display : 2
Enter 1 for enqueue, 2 for dequeue, 3 for display : 3
2 3 4 5
Enter 1 for enqueue, 2 for dequeue, 3 for display : 2
Enter 1 for enqueue, 2 for dequeue, 3 for display : 3
Enter 1 for enqueue, 2 for dequeue, 3 for display : 1
Queue is full
Enter 1 for enqueue, 2 for dequeue, 3 for display : 2 Enter 1 for enqueue, 2 for dequeue, 3 for display : 2
Enter 1 for enqueue, 2 for dequeue, 3 for display : 2
queue is empty
Enter 1 for enqueue, 2 for dequeue, 3 for display : 1
Enter element:1
Enter 1 for enqueue, 2 for dequeue, 3 for display : 3
Enter 1 for enqueue, 2 for dequeue, 3 for display : 5
PS C:\Users\bmsce\Desktop>
```





```
PAGE DATE
     ele y (c== 2)
ela
           y (yout == - 1) se (back -= -0)
               bruit ("Onew is entry");
           5
           elk
               front ++
                y ((front == max-1)) & & (back == (max-1))
                   front = -1;
                   back = -1;
       9
      els is (c== 3)
          ij(( pont = > -1) && (back = = -1))
              frints (" ourse is emphy")
         eln
             for ( int i = front , i K = back ; ite)
                prints ("10", equil [i]);
             5
    else q
        brail (" Savaled Enfert"); break;
```

No.	
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0. 4 6	PAGE DATE:
Output:	- Consider the second
Enfor manuam aux of 9	numer 5
Girts ! for equal , 2 h	or dequel, 3 you display, 4 jou enil: 1
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enter 1 jos earquell, 2	for dequeve, 3 for display, a for enit:)
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Enhr element: 5	16
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