

2a ds

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#include<stdio.h>

#define maxsize 3

int q[maxsize], front=0,rear=-1;

void insert()
{
    int n;
    if(rear==maxsize-1)
        printf("\nQueue full\n");
    else
    {
        printf("\nEnter the data to be added\n");
        scanf("%d", &n);
        q[++rear]=n;
    }
}

void delete()
{
    if(front>rear)
        printf("\nQueue is empty\n");
    else
    {
        printf("\n%d is deleted\n",q[front++]);
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}
}
void display()
{
int i;
if(front>rear)
printf("\nQueue is empty\n");
else
{
printf("\nQueue status is\n");
for(i=front;i<=rear;i++)
printf("%d\t",q[i]);
}
}
int main()
{
int ch;
while(1)
{
printf("1.Insert\n2.Delete\n3.Display\n4.Exit\n");
puts("\nEnter your choice\n");
scanf("%d",&ch);
switch(ch)
{
case 1: insert(); break;
case 2:delete(); break;
case 3:display(); break;
case 4: return 0;
default :printf("\nInvalid choice\n");

```

}

}

}