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#include <stdio.h>
#define MAX 5
int queue[MAX],front=-1,rear=-1;
void enqueue(int data){
    if(rear==MAX-1)
        printf("\nQUEUE FULL\n");
    else{
        rear= rear==MAX-1?0:rear+1;
        if(rear==0)
            front=0;
        queue[rear]=data; }
}
void dequeue(){
    if (front==MAX-1)
        printf("\nQUEUE EMPTY");
    else{
        printf("\nDELETED DATA:%d\n",queue[front]);
        front=front==MAX-1?0:front+1;
        if(front==MAX-1)
            rear=-1; }
}
void display (){
    if (front==MAX-1)
        printf ("\nQUEUE EMPTY");
    else{
        printf ("QUEUE : ");
        for (int curr=front; curr<=rear; curr++)
            printf (" %d", queue[curr]); }
}
int main(){
    int choice, data;
    do{
        printf("\nEnter\n1 FOR ENQUEUE");
        printf("\n2 FOR DEQUEUE");
        printf("\n3 FOR EXIT\n");
        scanf("%d", &choice);
        switch (choice){
            case 1: printf("ENTER DATA : ");
                    scanf("%d", &data);
                    enqueue(data);
                    display();break;
            case 2: dequeue();
                    display();}
        }while(choice < 3);
}

```