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| #include <stdio.h>  #include<stdlib.h>  #define MAX 50  void insert();  void delete();  void display();  int queue\_array[MAX];  int rear = - 1;  int front = - 1;  int main()  {  int choice;  while (1)  {  printf("1.Insert element to queue n");  printf("2.Delete element from queue n");  printf("3.Display all elements of queue n");  printf("4.Quit n");  printf("Enter your choice : ");  scanf("%d", &choice);  switch(choice)  {  case 1:  insert();  break;  case 2:  delete();  break;  case 3:  display();  break;  case 4:  exit(1);  default:  printf("Wrong choice n");  }  }  }  void insert()  {  int item;  if(rear == MAX - 1)  printf("Queue Overflow n");  else  {  if(front== - 1)  front = 0;  printf("Inset the element in queue : ");  scanf("%d", &item);  rear = rear + 1;  queue\_array[rear] = item;  }  }  void delete()  {  if(front == - 1 || front > rear)  {  printf("Queue Underflow n");  return;  }  else  {  printf("Element deleted from queue is : %dn", queue\_array[front]);  front = front + 1;  }  }  void display()  {  int i;  if(front == - 1)  printf("Queue is empty n");  else  {  printf("Queue is : n");  for(i = front; i <= rear; i++)  printf("%d ", queue\_array[i]);  printf("n");  }  } |

