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#include<stdio.h>
#define size 5
void enqueue(int);
void dequeue();
void display();
int items[size], front = -1 , rear = -1;
int main(){
   dequeue();
   enqueue(1);
   enqueue(2);
   enqueue(3);
   enqueue(4);
   enqueue(5);
   enqueue(6);
   display();
   dequeue();
   display();
   return 0;
}
void enqueue(int value){
   if(rear == size -1){
      printf("\nqueue is full");
   }
   else{
      if(front == -1)
      front = 0;
      rear++;
      items[rear] = value;
      printf("\ninserted -> %d",value);
```

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    }
}
void dequeue(){
    if(front == -1){
        printf("\n queue is empty");
    }
    else{
        printf("\ndeleted : %d",items[front]);
        front++;
        if(front > rear){
            front = rear = -1;
        }
    }
}
void display(){
    if (rear == -1){
        printf("\nqueue is empty");
    }
    else{
        int i;
        printf("\nqueue element are:\n");
        for(i = front; i <= rear; i++){
            printf("%d",items[i]);
        }
    }
    printf("\n");
}
```