DAY 14

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import java.util.Scanner;

class QueueOperations {

static int queue[], size, f, r;

static void enqueue(int x) {

if(r == size - 1) {

System.out.println("Queue Overflow");

return;

}

if(r == -1) {

f = r = 0;

}

else {

r++;

}

queue[r] = x;

}

static void dequeue() {

if(r == -1) {

System.out.println("No item to delete");

return;

}

System.out.println("Deleted Item: " + queue[f]);

if(f == r)

f = r = -1;

else

f++;

}

static void display() {

if(r == -1) {

System.out.println("Queue Underflow");

return;

}

System.out.println("Queue elements are: ");

for(int i = f; i <= r; i++) {

System.out.print(queue[i] + " ");

}

System.out.println();

}

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

System.out.print("Enter the queue size: ");

size = sc.nextInt();

queue = new int[size];

f = r = -1;

enqueue(10);

display();

enqueue(20);

display();

enqueue(30);

display();

enqueue(40);

display();

enqueue(50);

display();

enqueue(60);

display();

dequeue();

display();

dequeue();

display();

}

}

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class Node {

int data;

Node next;

Node(int x) {

data = x;

next = null;

}

}

class LinkedList {

Node head;

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Node createNode(int x) {

Node np = new Node();

np.data = x;

np.next = null;

return np;

}

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Node createNode(int x) {

Node np = new Node(x);

return np;

}

void insertEnd(int x) {

Node nptr = createNode(x);

if(head == null) {

head = nptr;

}

else {

Node temp = head;

while(temp.next != null) {

temp = temp.next;

}

temp.next = nptr;

}

}

void display() {

if(head == null) {

System.out.println("List Empty");

return;

}

System.out.println("List elements are: ");

Node temp = head;

while(temp != null) {

System.out.print(temp.data + " ");

temp = temp.next;

}

System.out.println();

}

public static void main(String[] args) {

LinkedList li = new LinkedList();

li.head = null;

li.insertEnd(10);

li.display();

li.insertEnd(20);

li.display();

li.insertEnd(30);

li.display();

li.insertEnd(40);

li.display();

li.insertEnd(50);

li.display();

}

}