DAY 12

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import java.util.Scanner;

import java.util.Arrays;

class ArrayOperations {

static Scanner sc = new Scanner(System.in);

static void input(int arr[], int n) {

System.out.print("Enter the array elements: ");

for(int i = 0; i < n; i++) {

arr[i] = sc.nextInt();

}

}

static void display(int arr[], int n) {

System.out.print("Array elements are: ");

for(int i = 0; i < n; i++) {

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

}

}

static int insertEnd(int arr[], int n, int x) {

arr[n] = x;

return n + 1;

}

static int insertBeg(int arr[], int n, int x) {

for(int i = n - 1; i >= 0; i--) {

arr[i + 1] = arr[i];

}

arr[0] = x;

return n + 1;

}

static int insertAtAny(int arr[], int n, int x) {

int pos;

System.out.print("Enter the position to insert new item: ");

pos = sc.nextInt();

for(int i = n - 1; i >= pos - 1; i--) {

arr[i + 1] = arr[i];

}

arr[pos - 1] = x;

return n + 1;

}

static int deleteEnd(int arr[], int n) {

System.out.println("\nDeleted Item: " + arr[n - 1]);

return n - 1;

}

static int deleteBeg(int arr[], int n) {

System.out.println("\nDeleted Item: " + arr[0]);

for(int i = 0; i < n - 1; i++) {

arr[i] = arr[i + 1];

}

return n - 1;

}

static int deleteAny(int arr[], int n) {

int pos;

System.out.print("\nEnter the position to delete item: ");

pos = sc.nextInt();

System.out.println("\nDeleted Item: " + arr[pos - 1]);

for(int i = pos - 1; i < n - 1; i++) {

arr[i] = arr[i + 1];

}

return n - 1;

}

public static void main(String[] args) {

int array[], n, x;

System.out.print("Enter no of elements: ");

n = sc.nextInt();

array = new int[30];

input(array, n);

display(array, n);

// System.out.print("\nEnter the new item: ");

// x = sc.nextInt();

// n = insertEnd(array, n, x);

// n = insertBeg(array, n, x);

// n = insertAtAny(array, n, x);

// n = deleteEnd(array, n);

// n = deleteBeg(array, n);

n = deleteAny(array, n);

display(array, n);

}

}

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// Print the array contents after left rotating it k times. Take input for k.

import java.util.Scanner;

import java.util.Arrays;

class ArrayRotation {

static Scanner sc = new Scanner(System.in);

static void input(int arr[]) {

System.out.print("Enter the array elements: ");

for(int i = 0; i < arr.length; i++) {

arr[i] = sc.nextInt();

}

}

static void display(int arr[]) {

System.out.print("Array elements are: ");

for(int i : arr) {

System.out.print(i + " ");

}

}

static void printRotatedArray(int arr[], int k) {

int n = arr.length;

int r = k % n;

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

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

}

for(int i = 0; i < r; i++) {

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

}

}

public static void main(String[] args) {

int array[], n, k;

System.out.print("Enter no of elements: ");

n = sc.nextInt();

array = new int[n];

input(array);

display(array);

System.out.print("\nEnter no of left rotations: ");

k = sc.nextInt();

printRotatedArray(array, k);

}

}