Problome P3;

import java.util.ArrayList;

import java.util.List;

import java.util.Scanner;

public class p3

{

public static void main(String args[])

{

Scanner input = new Scanner(System.in);

// Input the list of integers

System.out.println("Enter the number of elements in the list:");

int n = input.nextInt();

List<Integer> originalList = new ArrayList<>();

System.out.println("Enter the elements of the list:");

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

{

originalList.add(input.nextInt());

}

// Create a new list of squares of even numbers

List<Integer> evenSquaresList = new ArrayList<>();

for (int num : originalList)

{

if (num % 2 == 0)

{

evenSquaresList.add(num \* num);

}

}

// Print the list of squares of even numbers

System.out.println("List of squares of even numbers: " + evenSquaresList);

// Input start and end indices for slicing

System.out.println("Enter the start index for slicing:");

int startIndex = input.nextInt();

System.out.println("Enter the end index for slicing:");

int endIndex = input.nextInt();

// Validate indices

if (startIndex < 0 || endIndex >= originalList.size() || startIndex > endIndex)

{

System.out.println("Invalid indices. Please enter valid start and end indices.");

}

else

{

// Extract the sublist

List<Integer> sublist = originalList.subList(startIndex, endIndex + 1);

// Print the sublist

System.out.println("Sublist from index " + startIndex + " to " + endIndex + ": " + sublist);

}

}

}