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Object Oriented Programming Using Java

Week 3

1)



import java.util.Scanner;

public class LongestPositiveSequence {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

int n = sc.nextInt();

int[] arr = new int[n];

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

arr[i] = sc.nextInt();

}

int maxLen = 0, len = 0;

int maxSum = 0, sum = 0;

boolean hasPositive = false;

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

if (arr[i] >= 0) {

hasPositive = true;

sum += arr[i];

len++;

} else {

if (len > maxLen) {

maxLen = len;

maxSum = sum;

} else if (len == maxLen) {

maxSum += sum;

}

sum = 0;

len = 0;

}

}

if (len > maxLen) {

maxSum = sum;

} else if (len == maxLen) {

maxSum += sum;

}

System.out.println(hasPositive ? maxSum : -1);

sc.close();

}

}



2)



import java.util.Scanner;

public class ArraySum {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

int n = sc.nextInt();

int[] input1 = new int[n];

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

input1[i] = sc.nextInt();

}

int[] newArray = new int[n];

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

int number = input1[i];

int digit = 0;

if (i == 0) {

digit = number % 10;

} else if (i == 1) {

digit = (number / 10) % 10;

} else if (i == 2) {

digit = (number / 100) % 10;

} else if (i == 3) {

digit = (number / 1000) % 10;

} else if (i == 4) {

digit = (number / 10000) % 10;

}

if (number < Math.pow(10, i)) {

digit = 0;

}

newArray[i] = digit;

}

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

newArray[i] = newArray[i] \* newArray[i];

}

int sum = 0;

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

sum += newArray[i];

}

System.out.println(sum);

sc.close();

}

}