1.Find first duplicate Max Subarray . “Given a non-empty array of integers nums ,every element appers twice except for one .Find that single one.

import java.util.\*;

public class Main

{

public static int getsingleNumber(int arr[],int n)

{

int result=0;

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

{

result^=arr[i];

}

return result;

}

public static void main(String[] args) {

//System.out.println("Hello World");

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();

}

System.out.println(getsingleNumber(arr,n));

}

}

2 . Given an integer array nums. Find the contiguous subarray.Which has the largest sum and return its sum.

import java.util.\*;

class HelloWorld {

public static int maxSubArraySum(int a[], int size)

{

int current\_sum = 0, maximum\_sum = 0;

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

{

current\_sum = current\_sum + a[i];

if (current\_sum > maximum\_sum)

maximum\_sum = current\_sum;

if (current\_sum< 0)

current\_sum = 0;

}

return maximum\_sum;

}

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();

}

System.out.println(maxSubArraySum(arr,n));

}

}

Find first duplicate max subarray