**Question 1 : Leader in the Array**

**import** java.util.Scanner;

**import** java.util.Stack;

**public** **class** ArrayLeader {

**public** **static** **void** main(String[] args) {

// **TODO** Auto-generated method stub

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

**int** n=sc.nextInt();

**int**[] a=**new** **int**[n];

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

a[i]=sc.nextInt();

**int** key= a[n-1];

Stack<Integer> stack = **new** Stack<Integer>();

**for** (**int** i=n-2; i>=0; i--) {

**if** (key<a[i]) {

stack.push(key);

key=a[i];

}

}

stack.push(key);

**while** (!stack.empty()) {

System.***out***.print(stack.pop() + " ");

}

}

}

**Question 2 :Best Time to Buy and Sell Stock**

**public** **class** BuyAndSell {

**public** **static** **void** main(String[] args) {

// **TODO** Auto-generated method stub

**int**[] a={7,1,5,3,6,4};

**int** key = a[0];

**int** value = 0;

**for**(**int** i:a) {

**if**(key>i)

key=i;

**else** **if**(i-key>value)

value=i-key;

}

System.***out***.println(value);

}

}

**Question 3:Sum of All Subset XOR Totals**

**public** **class** XORSum {

**public** **static** **void** main(String[] args) {

// **TODO** Auto-generated method stub

**int** a[]={1,3};

**int** n=a.length;

**int** XORSum=0;

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

XORSum=XORSum|a[i];

XORSum=XORSum\*(**int**)Math.*pow*(2,n-1);

System.***out***.println(XORSum);

}

}