package d;

import java.util.\*;

public class as {

static void findsum(int tem[]){

int i,j,ans1,ans2,ans11,ans12,t1,t2;

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

{

for(j=i+1;j<n;j++)

{

if((tem[i]+tem[j])>0)

{

if(tem[i]+tem[j]<t1)

{

t1=tem[i]+tem[j];

ans1=tem[i];

ans2=tem[j];

}

}

else if(tem[i]+tem[j]<0)

{

if(tem[i]+tem[j]>t2)

{

t2=arr[i]+arr[j];

ans11=arr[i];

ans12=arr[j];

}

}

}

}

//to find element sum closest to zero but not zero

if(t1+t2<0)

System.out.println(ans1+" "+ans2);

else

System.out.println(ans11+" "+ans12);

}

}

public static void main(String args[]){

int n,i,c=0,c1=0;

Scanner o=new Scanner(System.in);

n=o.nextInt();

int arr[]=new int[n];

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

arr[i]=o.nextInt();

}

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

if(arr[i]>0)

c++;

else if(arr[i]<0)

c1++;

}

if(c==arr.length)

System.out.println("You Entered all positive");

else if(c1==arr.length)

System.out.println("You Entered all negative");

else

findsum(arr);

}

}