import java.util.\*;

public class Main{

public static void main(String[] args){

Scanner sc=new Scanner(System.in); System.out.println("Enter the array size"); int n = sc.nextInt();

if(n<=1 || n%2!=0){

System.out.println(n +" is an invalid number"); return;

}

int arr[]= new int[n]; System.out.println("Enter the number");

for(int i =0;i<n;i++){ arr[i]=sc.nextInt();

}

Arrays.sort(arr);

ArrayList<Integer> all= new ArrayList<Integer>(); for(int d=arr.length-1;d>=0;d--){

all.add(arr[d]);

}

ArrayList<Integer> al= new ArrayList<Integer>(); for(int j=0;j<n;j++){

al.add(arr[j] + all.get(j));

}

System.out.println("The maximum number is "+Collections.max(al));

}

}