package heapfile;

import java.io.File;

import java.io.PrintWriter;

import java.util.Scanner;

/\*\*

 \*

 \* @author lab515

 \*/

public class Heapfile {

 /\*\*

 \* @param args the command line arguments

 \*/

 public static void main(String[] args) {

 // TODO code application logic here

 Heap<Integer> h1 = new Heap<>();

 try

 {

 Scanner s = new Scanner(new File("marks.txt"));

 int n = s.nextInt();

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

 h1.add(s.nextInt());

 }

 PrintWriter p = new PrintWriter(new File("output.txt"));

 while(!h1.isEmpty())

 {

 p.println(h1.deleteMax());

 }

 p.close();

 }

 catch(Exception e)

 {

 System.out.println("file not found");

 }

 }

}