**import java.util.Scanner;**

**public class JobSequence{**

**/\*INPUT: no.of jobs:5**

**2 14**

**2 15**

**1 16**

**3 19**

**3 20**

**\*/**

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

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

**System.out.println("Enter no.of jobs: ");**

**int NO\_OF\_JOBS = sc.nextInt();**

**int Job[][] = new int[NO\_OF\_JOBS][2];**

**int maxAtIndex = 0,maxDeadLine=0;**

**String sequence = new String("");**

**System.out.println("Enter Deadline Profit: ");**

**for (int i = 0; i < NO\_OF\_JOBS; i++) { //Takes: values**

**for (int j = 0; j < 2; j++) {**

**Job[i][j] = sc.nextInt();**

**}**

**}**

**for (int i = 0; i < NO\_OF\_JOBS; i++) { //Otput: Maximum Deadline**

**if (maxDeadLine < Job[i][0]) {**

**maxDeadLine = Job[i][0];**

**}**

**}**

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

**String strJob = new String("");**

**int maxProfit = Job[0][1];**

**for (int j = 0; j < NO\_OF\_JOBS; j++) { //Gets: Maximum Profit**

**if (Job[j][0] >= maxDeadLine && maxProfit < Job[j][1]) {**

**strJob = String.valueOf(j);**

**maxProfit = Job[j][1];**

**maxAtIndex = j;**

**}**

**}**

**// System.out.println(strJob);**

**sequence += "<--" + (Integer.valueOf(strJob)+1); //System.out.println(sequence);**

**Job[maxAtIndex][0]=0;//Job executed**

**maxDeadLine--;**

**}**

**System.out.println("The sequence is:");**

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

**sc.close();**

**}**

**}**