



(/en/),
v1.1.0

CSD Testing System

(/en/)

Sorting by multiple attributes

Cost: 12 | Solved: 112

Memory limit: 64 MBs

Time limit: 1 s

Input: input.txt

Output: output.txt

Task:

A young programmer wrote his first testing system. He was so happy it compiled that he invited his school friends to his own contest.

But at the end of the tour it turned out that the system can't sort the teams in the results table properly. Help the programmer to write the correct implementation of the sorting.

The teams should be sorted by the next criteria:

- 1) By the quantity of solved tasks in descending order
- 2) When the quantities of solved tasks are equal – by the penalty time in ascending order
- 3) When both quantities of solved tasks and penalty times are equal – by the indices of teams in ascending order.

Input:

The first line contains a natural number n ($1 \leq n \leq 10^5$) – the quantity of teams participating in the contest.

The next n lines contain two numbers S – the quantity of solved tasks ($0 \leq S \leq 100$) and the penalty time T ($1 \leq T \leq 1000000$) of the i th team.

Output:

n numbers – the indices of teams in sorted order.

Example:

Input	Output
5	5 2 1 3 4
3 50	
5 720	
1 7	
0 0	
8 500	