

【bzoj1651】[Usaco2006 Feb]Stall Reservations 专用牛棚

2014年5月28日

804

1

Description

Oh those picky N ($1 \leq N \leq 50,000$) cows! They are so picky that each one will only be milked over some precise time interval $A..B$ ($1 \leq A \leq B \leq 1,000,000$), which includes both times A and B . Obviously, FJ must create a reservation system to determine which stall each cow can be assigned for her milking time. Of course, no cow will share such a private moment with other cows. Help FJ by determining: *

The minimum number of stalls required in the barn so that each cow can have her private milking period *

An assignment of cows to these stalls over time

有 N 头牛,每头牛有个喝水时间,这段时间它将专用一个Stall 现在给出每头牛的喝水时间段,问至少要多少个Stall才能满足它们的要求

Input

* Line 1: A single integer, N

* Lines 2.. $N+1$: Line $i+1$ describes cow i 's milking interval with two space-separated integers.

Output

* Line 1: The minimum number of stalls the barn must have.

* Lines 2.. $N+1$: Line $i+1$ describes the stall to which cow i will be assigned for her milking period.

Sample Input

```
5
1 10
2 4
3 6
5 8
4 7
```

Sample Output

```
4
```

OUTPUT DETAILS:

Other outputs using the same number of stalls are possible.

不妨试下这个数据,对于按结束点SORT,再GREEDY的做法 1 3 5 7 6 9 10 11 8 12 4 13 正确的输出应该是3

眼瞎了写了线段树，用差分序列就行了