

Race Results

The herd has run its first marathon! The N ($1 \leq N \leq 10,000$) times have been posted in the form of Hours ($0 \leq \text{Hours} \leq 99$), Minutes ($0 \leq \text{Minutes} \leq 59$), and Seconds ($0 \leq \text{Seconds} \leq 59$). Bessie must sort them (by Hours, Minutes, and Seconds) into ascending order, smallest times first.

Consider a simple example with times from a smaller herd of just 3 cows (note that cows do not run 26.2 miles so very quickly):

```
11:20:20
11:15:12
14:20:14
```

The proper sorting result is:

```
11:15:12
11:20:20
14:20:14
```

Input

* Line 1: A single integer: N

* Lines 2.. $N+1$: Line $i+1$ contains cow i 's time as three space-separated integers: Hours, Minutes, Seconds

Output

* Lines 1.. N : Each line contains a cow's time as three space-separated integers

Example

Input:

```
3
11 20 20
11 15 12
14 20 14
```

Output:

```
11 15 12
11 20 20
14 20 14
```