Toys

Coki likes toys. His friend Koci decided, he wants to give Coki one of his toys.

Koci lists all his toys, with two factors: his, Koci's, like factor of this toy, and Coki's like factor of this toy.

Since Coki is a good boy, he wants to get the toy, that has a minimal positive difference between the two likes. If two toys have the same difference, pick the one which Koci likes less. For more details, refer to the examples below.

Coki is a good boy, but not that smart... Please help him!

Input

Read from the standard input

- On the first line, find the number **N**
  - The number of toys
- On the next **N** lines, find the name of the toy with its two factors
  - The format is "TOY_NAME KOCIS_LIKE_FACTOR COKIS_LIKE_FACTOR", without the quotes
  - TOY_NAME is any string, containing between 3 and 50 lowercase latin alphabet letters or underscore ("_")
  - KOCIS_LIKE_FACTOR and COKIS_LIKE_FACTOR are 32-bit integers

Output

Print on the standard output

- On the single line, print the TOY_NAME of the selected by Coki toy

Constraints

- $3 <= N <= 10^6$

Sample tests

Input

```
5
a_ball 3 5
iphone 10 2
wooden_horse 4 5
dragon_knight 5 6
lego 5 4
```

Output

```
wooden_horse
```

Explanation

- "a_ball" has a difference of 2
- "iphone" has a difference of -8
- "wooden_horse" has a difference of 1
- "dragon_knight" has a difference of 1
- "lego" has a difference of -1

The answer is "wooden_horse", because this is the minimal positive difference and Koci likes it less than "dragon_knight".