Practice Arena

Practice problems aimed to improve your coding skills.

- PRACTICE-02_SCAN-PRINT
- PRACTICE-03_TYPES
- LAB-PRAC-02_SCAN-PRINT
- LAB-PRAC-01
- PRACTICE-04_COND
- BONUS-PRAC-02
- LAB-PRAC-03_TYPES
- PRACTICE-05_COND-LOOPS
- LAB-PRAC-04_COND
- LAB-PRAC-05_CONDLOOPS
- PRACTICE-07_LOOPS-ARR
- LAB-PRAC-06_LOOPS
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- LABEXAM-PRAC-01_MIDSEM
- PRACTICE-09_PTR-MAT
- LAB-PRAC-08_ARR-STR
- PRACTICE-10_MAT-FUN
- LAB-PRAC-09_PTR-MAT
- LAB-PRAC-10_MAT-FUN
- PRACTICE-11_FUN-PTR
- LAB-PRAC-11_FUN-PTR
- LAB-PRAC-12_FUN-STRUC
- LABEXAM-PRAC-02_ENDSEM
- LAB-PRAC-13_STRUC-NUM
  - Too tired to create a story - part I
  - Too tired to create a story - part II
  - Too tired to create a story - part III
  - Point Proximity
  - The Bisection Method
  - The pace is too fast
  - A Question on Quadrilaterals
  - The Trapezoidal Technique
  - Constrained Candy Crush
  - Major Mobile Madness
  - The Newton Raphson Method
  - The Palindrome Decomposition
- LAB-PRAC-14_SORT-MISC

Too tired to create a story - part I

LAB-PRAC-13_STRUC-NUM

Too tired to create a story - part I [20 marks]

Problem Statement
The first line of the input will give you N, a strictly positive number telling you the number of employees in a company. The next N lines will give you details of those N employees in the following format. For every employee, we will first give that employee's roll number in the form of a strictly positive integer, then a space, then the birth date of the person as a strictly positive integer, then the character '/' (without quotes) then the birth month as a strictly positive integer, then a space, then the year the person joined the company as a strictly positive integer.

ROLL D/M Y

The last line of the output will be just a roll number in the form of a strictly positive integer. Let us call this the query roll number.

1. If that roll number does not appear on the list at all, print "NOT FOUND" in the output and that is it.
2. If the query roll number does belong to an employee on the list, then find out the roll numbers of all employees who joined the company in the same year as the person in the query roll number, as well as share a birth month with the person with the query roll number.
3. If there is no such person on the list who has the same joining year and birth month as the query person (other than the query person themself of course), print "NO ONE" in the output.
4. If there are multiple people who share the joining year and birth month with the query person, output their roll numbers in the order they appeared on the list in the input. Output one roll number on each line.

Caution

1. The date, month, and year numbers will not have leading zeros.
2. Roll numbers on the list will be unique i.e. no roll number will appear twice on the list.
3. Of course the query roll number, if present on the list, will also share the joining year and birth month with themself. However, you should not print the query roll number itself in the output.
4. Be careful about extra/missing lines and extra/missing spaces in your output.

HINTS: Use a structure to store and process the employee data (this is not compulsory though)

```
struct Employee{
    int roll;
    int dateBirth;
    int monthBirth;
    int yearJoining;
};
```

EXAMPLE 1:
INPUT
2

100100 23/5 2011
100101 28/5 2011
100100

OUTPUT:
100101

Explanation: 100101 joined the company in the same year as 100100 did and the two share their birth month.

EXAMPLE 2:
INPUT
2
10 11/12 2018
11 10/10 2017
12

OUTPUT:
NOT FOUND

Explanation: roll number 12 is not on the list at all

EXAMPLE 3:
INPUT
5
98834 18/3 2015
98393 4/10 2017
88575 31/8 2016
18167 23/4 2013
26181 23/4 2018
18167

OUTPUT:
NO ONE

Explanation: roll number 18167 does not share the joining year and birth month with anybody else on the list.

Grading Scheme:
Total marks: **[20 Points]**

There will be partial grading in this question. There are several lines in your output. Printing each line correctly, in the correct order, carries equal weightage. Each visible test case is worth 2 points and each hidden test case is worth 4 points. There are 2 visible and 4 hidden test cases.

Please remember, however, that when you press Submit/Evaluate, you will get a green bar only if all parts of your answer are correct. Thus, if your answer is only partly correct, Prutor will say that you have not passed that test case completely, but when we do autograding afterwards, you will get partial marks.

Start Solving! (/editor/practice/6255)