Tech Test: Ruby on Rails

Please complete and return this technical test by the agreed deadline. Let us know if you have any questions.

Test Details:

1. Test Duration: 4 hours

2. Exercise:

- 1. Write a ruby code to Identify the Month.
- 2. Build a simple web application for doctors and patients appointment booking.

Important Points:

- Below point number 1,2,3 are applied to exercise 1.
- All points are applied to exercise 2.
- 1. All source code should be pushed to Github regular basis and add shubham-drcsystems to your GitHub repo
- 2. Once you start exercise please make an initial commit on GitHub.
- 3. Use the Latest Stable Version of Ruby and Rails OR Ruby.
- 4. Use PostgreSQL Database.
- 5. After successfully completing the project, We will schedule a call and you have to explain the code.

Exercise 1

Write a ruby code for Identify the Month.

Your monthly salary is S.

You are writing a table of 12 columns each denoting a month starting from January, February,..., December. You are filling the table with the cumulative sum of salary starting from the first row (beginning) continuously for an infinite time.

Example: If S is 100 then Bob's table would look like:

January	February	March		December
100	200	300	***	1200
1300	1400	1500		2400

You need to answer Q questions where each question consists of two numbers S and X. X is one of the values from the table. You need to print the column number i.e. the number of months to which X belongs to.

Input format

First line: An integer Q

Next Q lines: Each line consists of S and X

Output format

Print the column number to which X belongs to (January denoting column 1 and December denoting column 12).

Sample Input

100 2500

100 200

Sample Output

1

2

Exercise 2

Build a simple web application where doctors and patients can do the following things.

Doctor

- 1. Sign up
- 2. Sign in
- 3. A Doctor can set availability for an appointment. Where they can set start time and end time and the interval of the slot will be default 1 hour. (Till Next 7 days) e.g.

start-time = 10:00 and end-time = 13:00

so the slots will look like this below

Monday	Tuesday		Sunday
10:00 to 11:00	10:00 to 11:00		10:00 to 11:00
11:00 to 12:00	11:00 to 12:00	•••	11:00 to 12:00
12:00 to 13:00	12:00 to 13:00		12:00 to 13:00

- 4. A doctor can see the history of booked appointments.
- 5. Accept or Reject an Appointment.

Patient

- 1. Sign up
- 2. Sign in

- 3. Choose a doctor and book an appointment as per the availability of the selected doctor.
- 4. A patient can see the history of booked appointments.
- 5. A patient can't book twice in the same time slot for any doctor.

Best of Luck!