

# **Voxus Challenge I - Lógica**

## Instruções

- A partir de agora você tem 24 horas para resolver o teste abaixo. Você pode utilizar a linguagem de programação e framework que preferir, desde que siga todas as regras do enunciado;
- 2. Ao finalizar, ou no fim das 24 horas, crie um repositório **privado** em uma plataforma de código, sendo preferencial o **GitHub** ou **BitBucket**;
- 3. Conceda acesso de leitura ao repositório criado ao e-mail gustavo.lei@voxus.tv;
- Certifique-se que seu repositório está privado e que o acesso foi concedido corretamente;
- 5. Não se esqueça de detalhar no *readme* o processo de configuração para rodar o seu teste:
- 6. Envie uma mensagem para os e-mails <u>gabriela.rodrigues@voxus.tv</u> e <u>recrutamento@voxus.tv</u> contendo o link do seu repositório no corpo do e-mail.

### **Enunciado**

1) Consider that you're creating an auxiliary class for the new Voxus product, and this class is responsible for finding the day number of the year, based on a received date. The date will be a string, represented using <u>Gregorian Calendar</u> and formatted as YYYY-MM-DD.

#### **Example I:**

```
Input: "2019-01-09"
Output: 9
Explanation: Given date is the 9th day of the year in 2019.
```

#### **Example II:**

```
Input: "2019-02-10"
Output: 41
```

#### **Constraints:**

- date.length == 10;
- date[4] == date[7] == "-", and all other date[i] 's are digits;
- date represents a calendar date between Jan 1st, 1900 and Dec 31th, 2022.
- Any received string not following the constraints should not be accepted by your code.
- You may NOT use libraries or language internal functions that convert the string
  to date or that calculates the day number of the year for the developer. You
  must create your own logic to solve the problem.
- Don't forget to follow <u>coding best practices</u> for naming your variables, functions and class.
  - Each language use different naming conventions, so try to follow your language conventions.
- You are **required** to containerize your solution using Docker. Don't forget to include in the **readme** the details to run your containerized application.
- **2)** For the previously implemented code, create a suite of automated tests that validates that your solution works as expected for all possible cases that you can think of (both success and error). Don't forget to follow <u>testing best practices</u>.