**Leap year & count substring**

Good Morning AXSOS Academy,

today we need to make sure that all students are using python in their solutions,

* Let’s Have our algorithm today in Python which is great interviewing language because
  + Python is easy to learn.
  + Closer to English compared by other languages
  + Code feels like pseudo code easy to read and understand
  + Very well known which will give you better communication at the interview
  + Many and many libraries ( let’s have our solution faster and faster ^\_^)

So Let’s use python DON’T forget to write your code in a pythonic way (USE PEP 8 FOR YOUR CODE STYLE) ex variables name use snack case : leap\_year

1. Leap Year Algorithm:

Every year that is exactly divisible by four is a leap year, except for years that are exactly divisible by 100, but these centurial years are leap years, if they are exactly divisible by 400.

For example, the years 1700, 1800, and 1900 were not leap years, but the years 1600 and 2000 were.

Let’s have a function that return if this year is leap or not

Input year output true

Ex: input : 2004 output: true

//Start your coding here

def is\_leap\_year (year):

Step-1 : If the year is evenly divisible by 4, go to step 2. Otherwise, go to step 5.Step-2 : If the year is evenly divisible by 100, go to step 3. Otherwise, go to step 4.Step-3 : If the year is evenly divisible by 400, go to step 4. Otherwise, go to step 5.

Step-4 : The year is a leap year (it has 366 days).

Step-5 : The year is not a leap year (it has 365 days).

1. Find a String:

We need to count how many times we have substring in the input string

Ex: input :ABSHIZLMSHIZ, HIZ

Output:HIZ