

# Assignment 2

Chotokhato Programming Camp 2024

June 28, 2024

Please submit your codes in the following google form - <https://forms.gle/bGfFdVE4EhMPnMGb8>.

## Task 1 - A mathematician's dream

Given two floats  $a$  and  $b$ , Compute  $(a + b)^2$  and  $(a - b)^2$ .

## Task 2 - In our prime

You are given a positive integer  $x$  that is **not greater than 10** (i.e  $x \leq 10$ ). Determine if  $x$  is a prime or not.

A prime number is a number that is only divisible by itself and 1. 1 is not a prime number.

## Task 3 - Leaping through years

A *leap year* is a year that is **divisible by 4**, but **not divisible by 100**. However, years that are **divisible by 400** are considered to be leap years.

Given an year as input, print if it is a leap year or not.

## Task 4 - Second by second

You have given an amount in seconds. You have to determine this amount in a **hours b minutes c seconds** format. Example input/output is given below-

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input : 3600
output : 1 hours 0 minutes 0 seconds

input : 2443
output : 0 hours 40 minutes 43 seconds

input : 25
output : 0 hours 0 minutes 25 seconds
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