Rulebook
Task 0
(1a) Software Installation (Ubuntu)
(1b) Software Installation (Windows)
(2) Test Setup
(3) Learning Resources / Tutorials
(4) Solving Assignment
Task 1
Task 2

Practice Task

Task 3 Task 4

Task 5

Instructions for Task 6

Task 6 Scene Details

Coding Standard

Git and GitHub

Live Session 1 - 24th October 2020

Live Session 2 - 21st November 2020

Live Session 3 - 12th December 2020

Live Session 4 - 10th January 2021

Changelog

# Task 0 Solving Assignment

[ Last Updated on: 6th October 2020, 18:26 Hrs ]

**Note:** We hope that you have gone through the Tutorials document and understood the syntax of **Python** and **Lua** language. If not, then please do that before trying to solve the assignment over here.

In this document you will apply the basic usage of Python and Lua language learnt from the Tutoria and solve the assignment.

This assignment is a little different, in a way that it's actually a **team-contest** hosted on **CodeChef**.

- Team-Contest Description
- How do I access the Team-Contest?
- General Instructions

What's **CodeChef** you ask?

Well, CodeChef is a global competitive programming platform. It is an educational initiative started by **Directi** which hosts many coding contests and has a large community of programmers that help students and professionals test and improve their coding skills.

# **Team-Contest Description**

Rulebook

# Welcome to NB theme!

Task 0

- (1a) Software Installation (Ubuntu)
- (1b) Software Installation (Windows)
- (2) Test Setup
- (3) Learning Resources / Tutorials
- (4) Solving Assignment

 Task 1
 1

 Task 2
 2

 Task 3
 1

 Task 4
 2

 Task 5
 2

Practice Task

Instructions for Task 6

Task 6 Scene Details

Coding Standard

Git and GitHub

Live Session 1 - 24th October 2020

Live Session 2 - 21st November 2020

Live Session 3 - 12th December 2020

Live Session 4 - 10th January 2021

Changelog

### (4) Solving Assignment - eYRC 2020-21: Nirikshak Bot (NB)

We will be using this platform to test your **Python** and **Lua** programming skills. Let's see what this assignment or team-contest has in store for you.

You can access the Contest page from here: **https://codechef.com/PYLT2020/**. Refer to section: How do I access the Team-Contest? for more details.

- To participate, you will have to first register for the contest. The registration will start from 0610-2020 00:00:00 and will end on 11-10-2020 23:59:00. Make sure you register your team
  sooner. There will be no deadline extension in any circumstances.
- The contest will start from 08-10-2020 00:00:00 and will end on 19-10-2020 23:59:00.
- The contest will have 10 problems:
  - **5 problems** based on *Python* programming
  - **5 problems** based on *Lua* programming
- Each problem has the maximum score of 100 points.
- **Each problem** is divided into multiple **subtasks** and the *100 points* are distributed over these subtasks. The points awarded for each subtask will be mentioned in the description of that problem.
- Each subtask will have few test cases associated with it.
- To obtain all the points associated with a **subtask**, your program will have to clear or pass all the test cases. Failing even **one test case**, will result in **0 points** for that particular subtask.
- Your performance in this assignment will contribute to the overall score of **Task 0**.

Now that you are aware of the overall assignment or contest structure, let's zoom in on the structure each problem will follow.

- 1. **Problem**: A brief description of the problem statement.
- 2. Input: It describes the format in which the input to a program will be provided.
- 3. **Output**: It describes the format an output of a program *must* follow.
- 4. **Constraints**: As the name suggests, it will tell you the limits/range of values a variable will have.
- 5. Subtask: This section will mention all the subtask and the points associated with each subtask
- 6. **Sample Input**: It shows an example input to a program, based on its format mentioned in *Input* section above.
- 7. **Sample Output**: It shows an example output of a program for the corresponding *Sample Inpu* based on its format mentioned in *Output* section above.
- 8. **Explanation**: This section explains the problem using the *Sample Input* and *Sample Output* as a reference.

Given all the above details, one might wonder how to feed the input values of test cases to the code You need not worry about that. Just assume there is a user at the other end who is inserting the input to your program. You just have to read and parse the values.

# Rulebook Task 0 (1a) Software Installation (Ubuntu) (1b) Software Installation (Windows) (2) Test Setup (3) Learning Resources / Tutorials (4) Solving Assignment Task 1 Task 2 Task 3 Task 4 Task 5 Practice Task Instructions for Task 6 Task 6 Scene Details Coding Standard Git and GitHub Live Session 1 - 24th October 2020 Live Session 2 - 21st November 2020 Live Session 3 - 12th December 2020 Live Session 4 - 10th January 2021 Changelog

## A word of caution:

While displaying the results, make sure you display it in the exact format as is specified in the problem. At extra space in the output can cause the code to fail the test case.

Here's a list of possible remarks for the output you might get. You can also find this list on the right bottom corner of the problem page.

After you submit a solution you can see your results by clicking on the [My Submissions] tab on the problem page. Below are the possible results:

- Accepted 
  Your program ran successfully and gave a correct answer. If there is a score for the problem, this will be displayed in parenthesis next to the checkmark.
- Time Limit Exceeded Var Your program was compiled successfully, but it didn't stop before time limit. Try optimizing your approach.
- Wrong Answer X Your program compiled and ran succesfully but the output did not match the expected output.

# How do I access the Team-Contest?

- Click on this link: https://codechef.com/PYLT2020. Read all the instructions mentioned on the page carefully.
- All four team members should create an account using the same email address that they
  used to register on the eYRC portal. If you already have CodeChef account, simply login to you
  account with your user ID. Please make sure you use the same email address that you used while
  registering for eYRC.

**Note:** It is recommended that the next step is performed by team leader ONLY.

Rulebook )
Task 0

- (1a) Software Installation (Ubuntu)
- (1b) Software Installation (Windows)
- (2) Test Setup
- (3) Learning Resources / Tutorials
- (4) Solving Assignment

 Task 1
 2

 Task 2
 2

 Task 3
 2

 Task 4
 2

 Task 5
 2

Practice Task

Instructions for Task 6

Task 6 Scene Details

Coding Standard

Git and GitHub

Live Session 1 - 24th October 2020

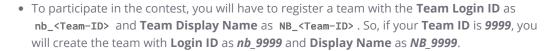
Live Session 2 - 21st November 2020

Live Session 3 - 12th December 2020

Live Session 4 - 10th January 2021

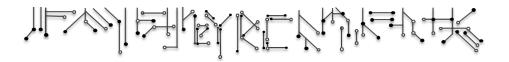
Changelog





- Add the CodeChef user ID of your four team members to register a team. Ensure that you ac
  the correct user ID of your team members since the user ID is case sensitive. Set a common
  team password that is easy to remember amongst your four team members. The other thre
  team members will receive an invite to join the team.
- Once registered, click logout in the top right corner and login using the Team Login ID and team password you registered with. There is a limit of one user per session, so only one tean member should login with Team Login ID.
- A student can be part of **only one** team with which he/she registered for eYRC.
  - **DO NOT** change team compositions at this stage.
  - **NO** participant should be part of more than one team.
  - Students **not abiding** by this rule will result in all the team members getting **disqualifie** from the competition.
- Once you have formed the team, you can enter the contest here: https://codechef.com/PYLT2020.
- You will find the list of **10 problems**. Clicking on one of these problems will lead you to the problem page where you will find all the details of that particular problem.
- All that's left now, is to start solving the problem and submit your solution.

**Note:** It is recommended that ONLY one team member submits the solution to the problems.



eYRC 2020-21: Nirikshak Bot (NB)

Rulebook Task 0 (1a) Software Installation (Ubuntu) (1b) Software Installation (Windows) (2) Test Setup (3) Learning Resources / Tutorials (4) Solving Assignment Task 1 Task 2

Practice Task

Task 3

Task 4 Task 5

Instructions for Task 6

Task 6 Scene Details

**Coding Standard** 

Git and GitHub

Live Session 1 - 24th October 2020

Live Session 2 - 21st November 2020

Live Session 3 - 12th December 2020

Live Session 4 - 10th January 2021

Changelog

# **General Instructions**

- Stuck somewhere? Can't figure out the solution? Approach us on Piazza.
- If your friend is stuck somewhere and can't figure out the solution then ask him/her also to contact us on Piazza but do not share the code. Everyone is here to learn.
- In case you have questions, specifically regarding any task, please post a query on Piazza. You will get an answer from us within 24 hrs.
- While performing this task, please refrain from using any other forum or medium like email o social media to ask your queries.
- Just sweep through Piazza once before asking a question. Many times, the same or similar kin of question is already answered.

## **ALL THE BEST!!**