

# RCSC TREASURE HUNT - 2.0

## PROBLEM:

### RCSC TREASURE HUNT - 2.0

Welcome to Cyber Treasure Hunt 2.0!

Your journey begins here. The flag is divided into 7 parts (1- 7), each hidden in the shadows.

You'll encounter the flag segments in the following format: flag[x] = "Example"

Once you've gathered all parts, concatenate them and submit the complete flag.

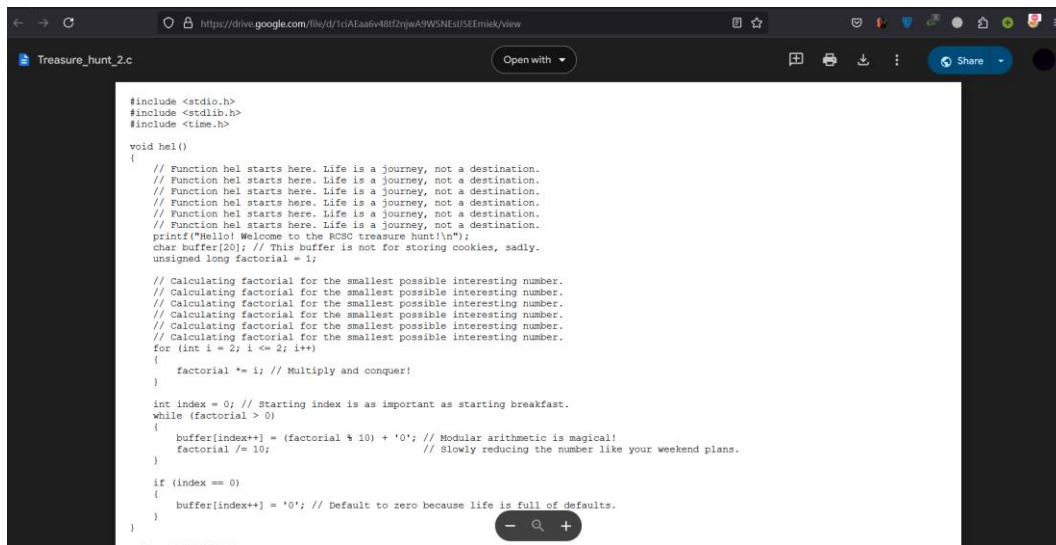
Here is your first clue : Familiarity with the C programming language will be beneficial. While coding isn't required, attentive reading of the code is essential. Remember, sharing your discoveries will lead to disqualification. Best of luck!

C code is here: <https://drive.google.com/file/d/1ciAEaa6v48tf2njwA9WSNEsIJ5EEEmiek/view>

After completing your hunt submit the flag here:

## SOLUTION:

Firstly, a link was provided for the initial step, leading to a C code file. After visiting the link, I found this:



```
#include <stdio.h>
#include <stdlib.h>
#include <time.h>

void hel()
{
    // Function hel starts here. Life is a journey, not a destination.
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    // Function hel starts here. Life is a journey, not a destination.
    printf("Hello! Welcome to the RCSC treasure hunt!\n");
    char buffer[20]; // This buffer is not for storing cookies, sadly.
    unsigned long factorial = 1;

    // Calculating factorial for the smallest possible interesting number.
    // Calculating factorial for the smallest possible interesting number.
    // Calculating factorial for the smallest possible interesting number.
    // Calculating factorial for the smallest possible interesting number.
    // Calculating factorial for the smallest possible interesting number.
    for (int i = 2; i <= 2; i++)
    {
        factorial *= i; // Multiply and conquer!
    }

    int index = 0; // Starting index is as important as starting breakfast.
    while (factorial > 0)
    {
        buffer[index++] = (factorial % 10) + '0'; // Modular arithmetic is magical!
        factorial /= 10; // Slowly reducing the number like your weekend plans.
    }

    if (index == 0)
    {
        buffer[index++] = '0'; // Default to zero because life is full of defaults.
    }
}
```

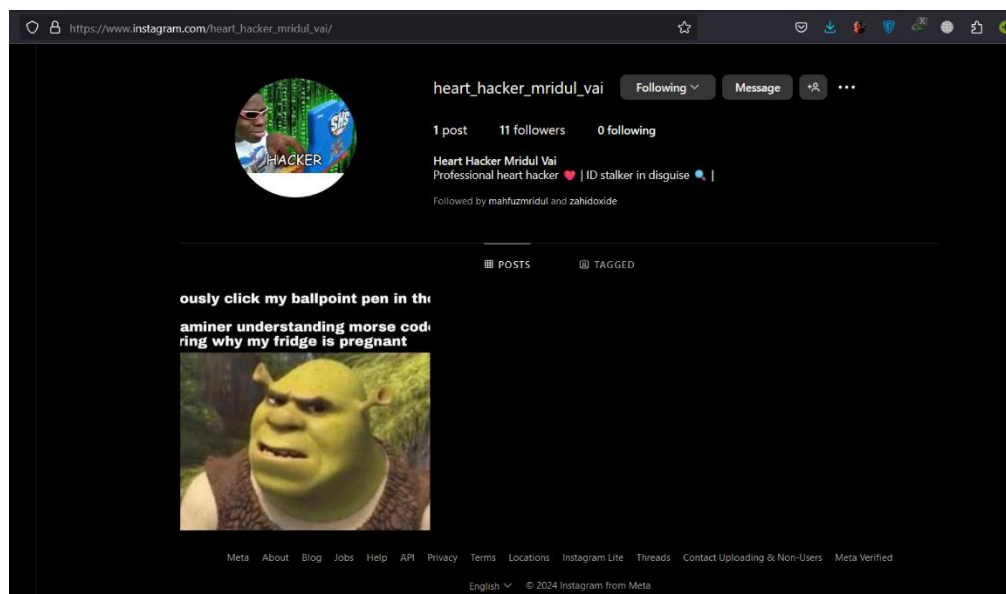
When I downloaded the C code and opened it, I found many functions in the code. Among them, I discovered something interesting that was commented out:

```

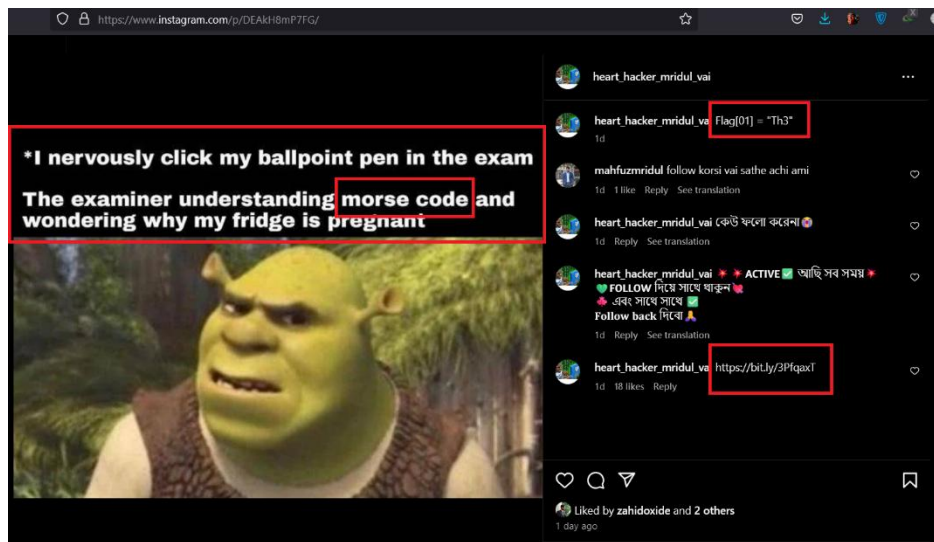
C Treasure_hunt_2.c > hel()
152 void get_data()
153 {
169 srand(time(NULL)); // Seeding the randomness because life is random.
170 secret = rand() % 100 + 1; // Secret numbers are always thrilling.
171 secret = rand() % 100 + 1; // Secret numbers are always thrilling.
172 secret = rand() % 100 + 1; // Secret numbers are always thrilling.
173 secret = rand() % 100 + 1; // Secret numbers are always thrilling.
174 secret = rand() % 100 + 1; // Secret numbers are always thrilling.
175 secret = rand() % 100 + 1; // Secret numbers are always thrilling.
176 // printf("Congratulations! You guessed it!\n"); // Celebrating your victory.
177 // The story begins here. Every treasure hunt needs a tale.
178 // printf("\nWelcome to treasure hunt. Your Journey begins here. Every treasure hunt needs a
    tale.\n");
179 // printf("Someone once messaged our club's representative, Mridul, asking him to hack an ID.
    But instead of hacking the ID, he hacked their heart! Now he is legendary in our club as
    'heart_hacker_mridul_vai'. To top it off, he even created an Instagram account not to hack IDs,
    but to stalk them in style!\n");
180 printf("Guess the number (1-100): ");
181 do
182 {
183     scanf("%d", &guess); // Reading your mind, or at least your input.
184     if (guess < secret)

```

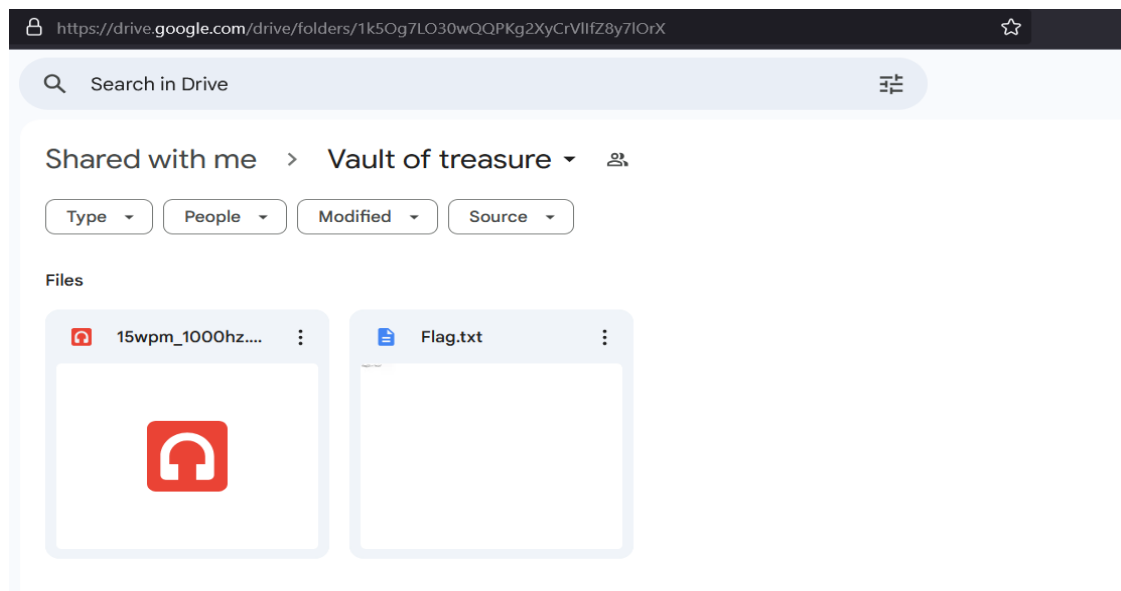
Here is given about an instagram account named “heart\_hecker\_mridul\_vai”. When i search this in my instagram account i found this:



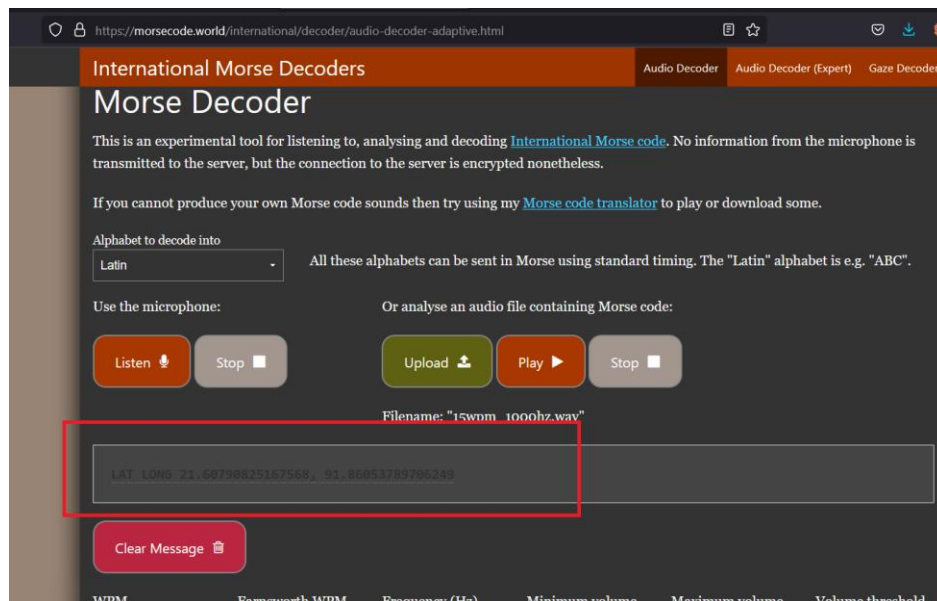
He has posted 1 post and he have 11 followers. His post was this:



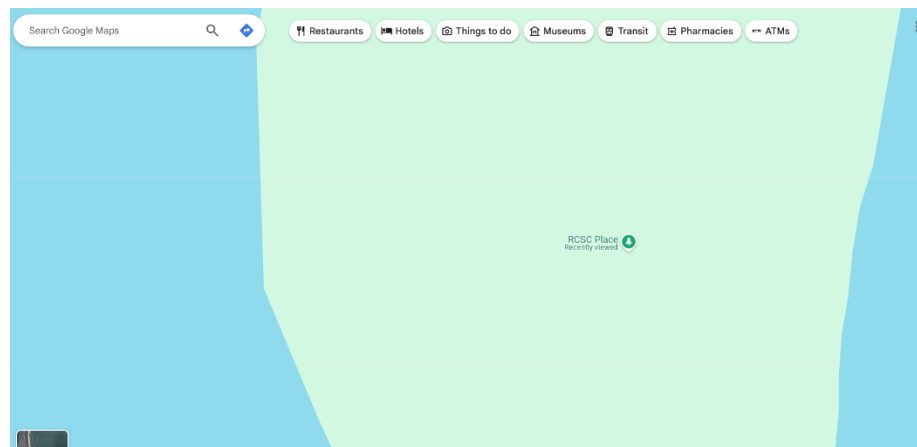
In this post flag[01] is given. And a link is given: <https://bit.ly/3PfqaXT>. When I visit this link I found this:



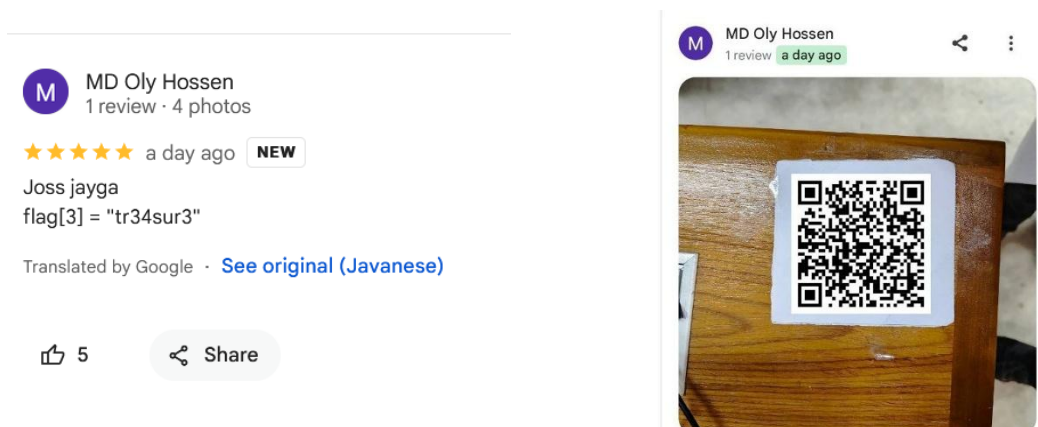
In flag.txt I found 2<sup>nd</sup> part of the flag. flag[2] = "true" and other was an audio file. As previously in the Instagram post the post was about morse code. So I go to online for morse code decoder and decode the audio file and found this:



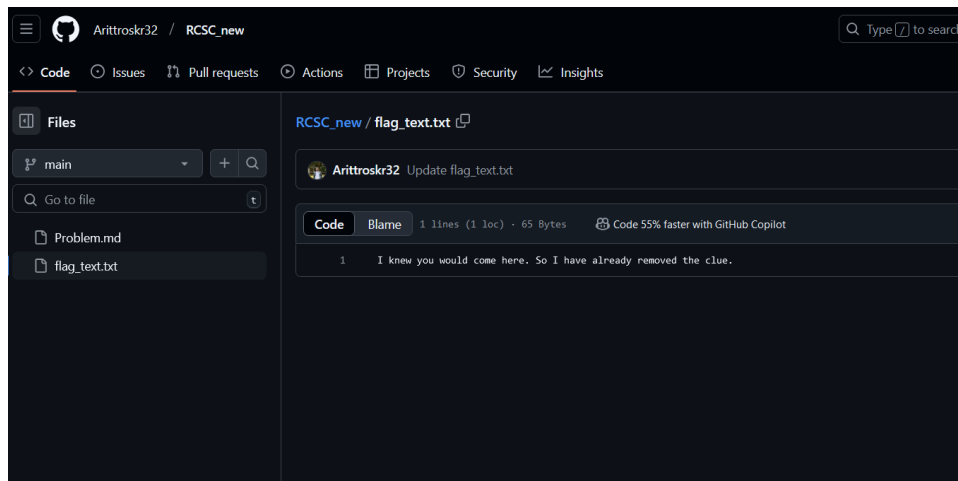
LAT LONG 21.60790825167568, 91.86053789706249. When I google it I found this was latitude and longitude which refers to a location. I search this location in google map and found this.



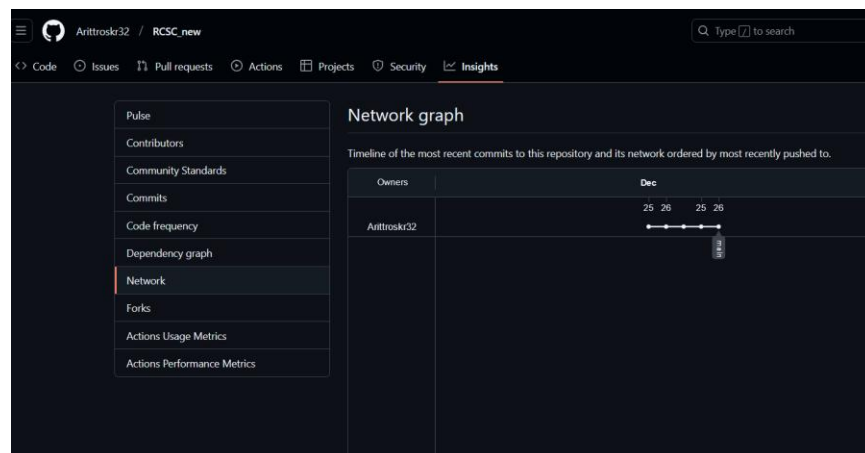
When I open this location I found something in the update section of this location I found a QR



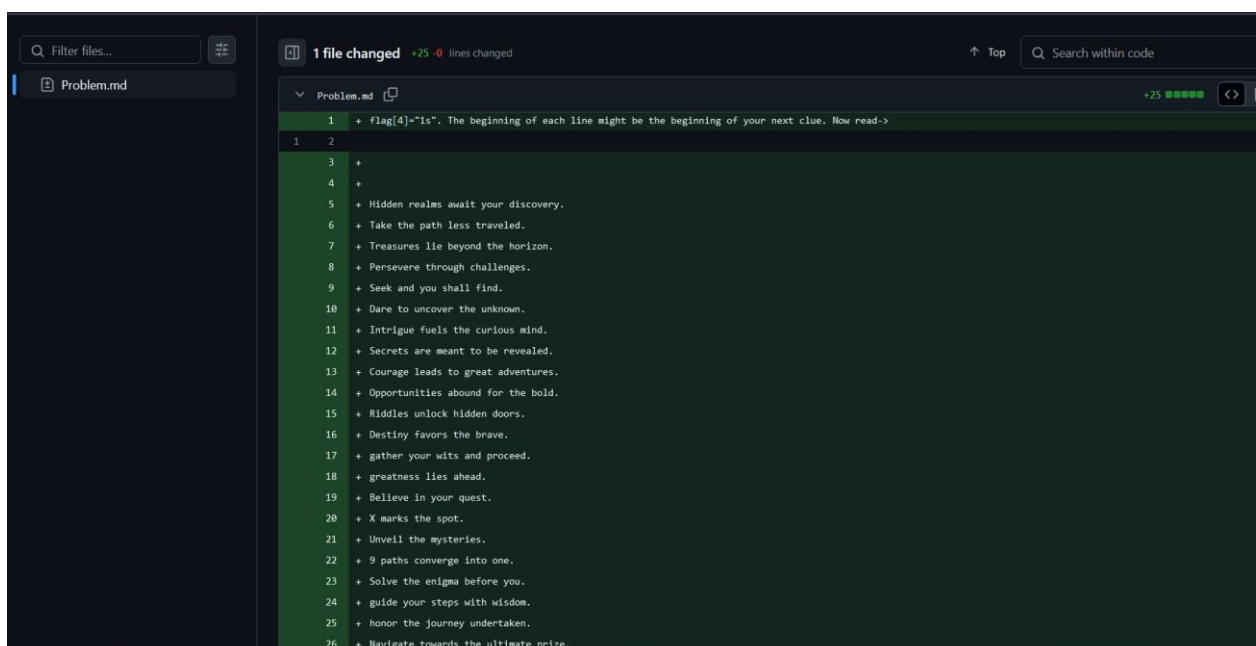
This QR take me to [https://github.com/Arittroskr32/RCSC\\_new](https://github.com/Arittroskr32/RCSC_new) this location. Here



It tells that they has already changed everything. So it means it has been edited. So I go to insights -> network of this repository:



When I click on 26 I found the actual message that was edited:



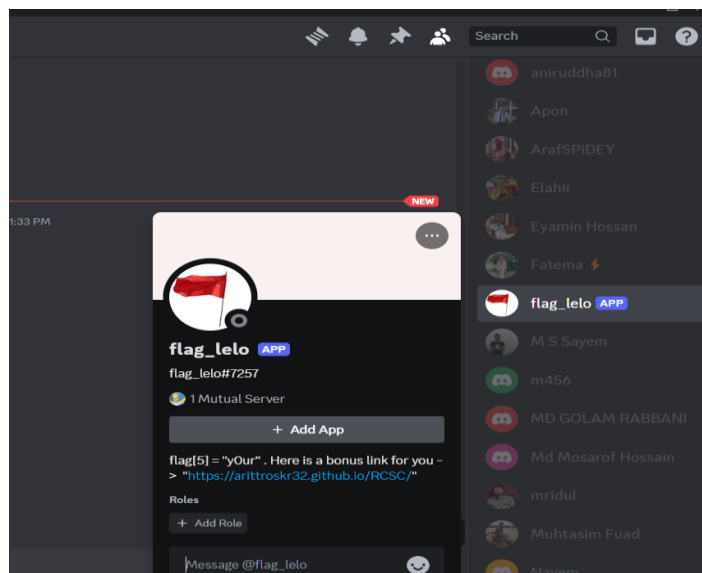
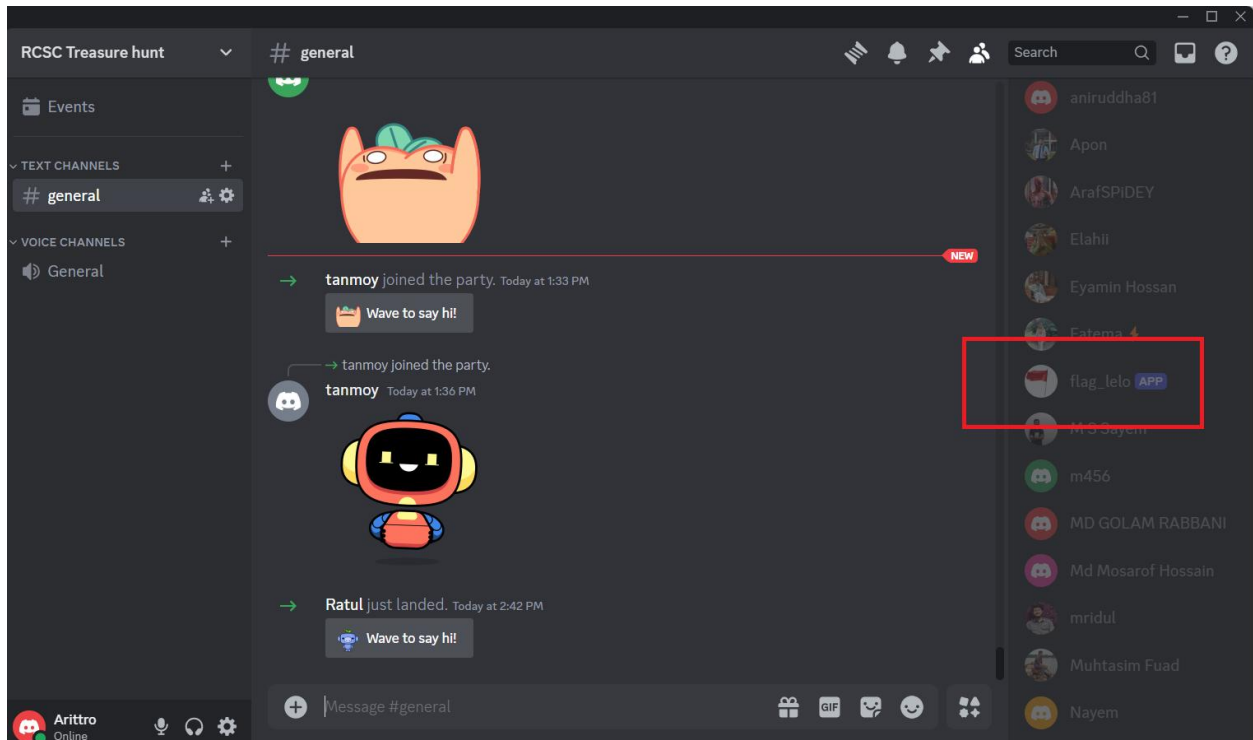
I found flag[4] here and a clue for next round. As it tells that line begging is the next clue. So write the first character of every line and get this:

HTTPSDISCORDggBXU9SghN

This is something like a discord link:

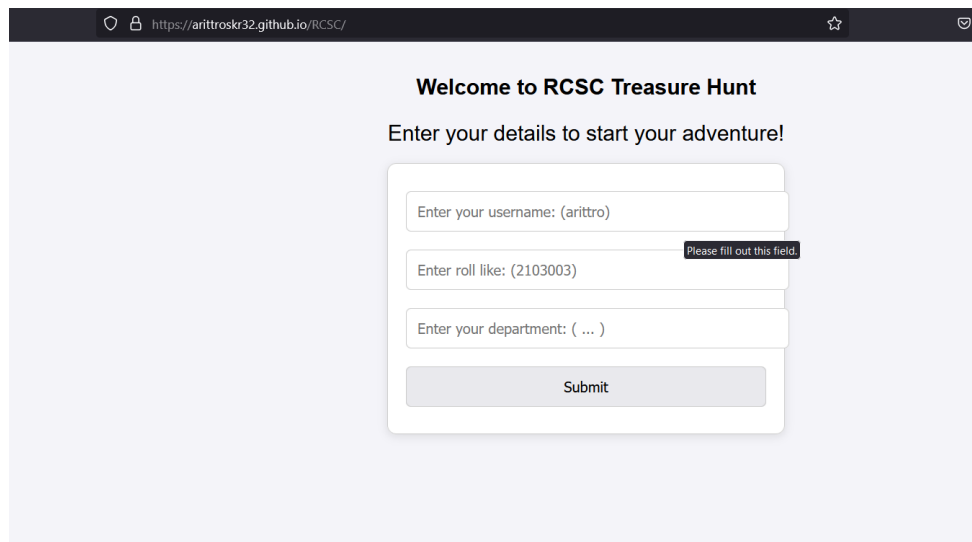
<https://DISCORD.gg/BXU9SghN>

when I open this link it take me to a discord channel. There I found nothing in this channel but when I see the members of this channel I found one bot interesting names “flag\_lelo”.



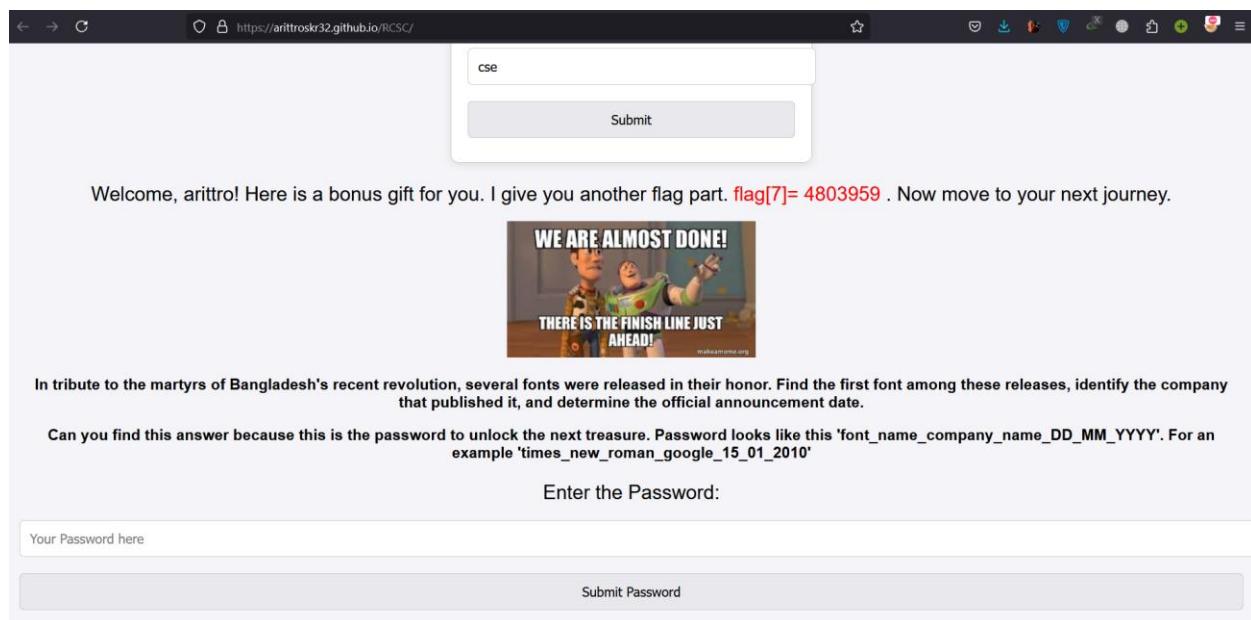
W=in this bot description I found flag[5] and a link: <https://arittroskr32.github.io/RCSC/>

Here I found this:



The screenshot shows a web browser window with the URL <https://arittroskr32.github.io/RCSC/>. The page has a light purple background and a white form in the center. The form is titled "Welcome to RCSC Treasure Hunt" and "Enter your details to start your adventure!". It contains three input fields: "Enter your username: (arittro)", "Enter roll like: (2103003)", and "Enter your department: ( ... )". A "Submit" button is at the bottom of the form. A small red error message "Please fill out this field." is visible next to the roll number field.

When I give all the details I got this:



The screenshot shows the same web browser window after the form has been submitted. The "Submit" button is now disabled. Below the form, the text reads: "Welcome, arittro! Here is a bonus gift for you. I give you another flag part. flag[7]= 4803959 . Now move to your next journey." Below this text is a meme image featuring Woody and Buzz Lightyear from Toy Story. The meme text says: "WE ARE ALMOST DONE! THERE IS THE FINISH LINE JUST AHEAD!". Below the meme, the text reads: "In tribute to the martyrs of Bangladesh's recent revolution, several fonts were released in their honor. Find the first font among these releases, identify the company that published it, and determine the official announcement date." Below this text is another line of text: "Can you find this answer because this is the password to unlock the next treasure. Password looks like this 'font\_name\_company\_name\_DD\_MM\_YYYY'. For an example 'times\_new\_roman\_google\_15\_01\_2010'". Below this text is a label "Enter the Password:" and a text input field with the placeholder "Your Password here". A "Submit Password" button is at the bottom of the page.

I got another flag and a problem. This problem tells about recent revolution which is about 'quota andolon'. When I search fonts on martyrs of quota andolon I found a font name 'Abu Sayed' font. Which release date was 31 july, 2024.

So password will be : abu\_sayed\_codepotro\_31\_07\_2024

When I give this and submit it I found this:

If you do not see the video, then change your browser.



Hurray! You have come to the end of this hunt. Your final clue is concealed within these numbers. Decipher them to conclude your quest. **flag[6]="22.777.2.444.66"**

Last flag was decoded "22.777.2.444.66". As in the video a nokia phone is given. So I think it was encoded as dial pad. When I decode it I found a word : brain

So flag[6] = "brain".

So all the flag parts are complete. Full flag looks like:

Flag : RCSC{Th3\_true\_tr34sur3\_1s\_y0ur\_brain\_4803959}