

```
var atpos=inputs[i].indexOf('@');  
var dotpos=inputs[i].lastIndexOf('.');  
if (atpos<1 || dotpos<atpos+2 || dotpos-1==inputs[i].lastIndexOf('.'))  
    document.getElementById('errEmail').innerHTML += 'Invalid email address  
else  
    document.getElementById(div).innerHTML += 'Valid email address'
```

# CODIFICA



## Made by :

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# **SRS**

**Category : Web Application**

## **PURPOSE**

The purpose of developing “Codifica” is to provide editorials to the programmers stepping into the world of Competitive Programming and help them improve on their honed skills.

## **SCOPE**

It will integrate the benefits of a Coding Environment with the convenience of getting different approaches for the same problem which can help the programmers in all the possible ways. It provides a means of collaborative learning for them and also creates a new coding community to discuss their doubts and come up with various solutions to it.

## **INTRODUCTION**

Introduction contains the following sub categories :

### **Existing System**

Presently editorials are only released by the official contests’ writers and testers. This system involves the following disadvantages :

- It provides limited resources and is less beginner friendly
- Understanding the most efficient approach directly is not easy
- It takes a lot of time to grasp the logic behind

the solution • The existing websites provides editorials for only the contests hosted on their websites

## **Proposed System**

Codifica is the one that aims to give the programmer an experience to a better coding community that could help them in every possible way. It is advantageous for both the learner and the ones who are writing the editorials.

The system after careful analysis has been identified to be presented with the following modules :

- **Editorial Writing Portal** : Coders who have solved the problem can provide their code and its explanation.
- **Editorials** : Coders who were unable to solve the problem during the contest can refer the solutions on Codifica to understand its solution easily.
- **Authentication** : Verifying the writer's credibility using various APIs to see that if they have really solved the problem before writing it.
- **Filtering** : Editorials can be filtered according to specific contests and problems.

## **ADVANTAGES FOR LEARNERS**

Advantages for the programmers are explained below

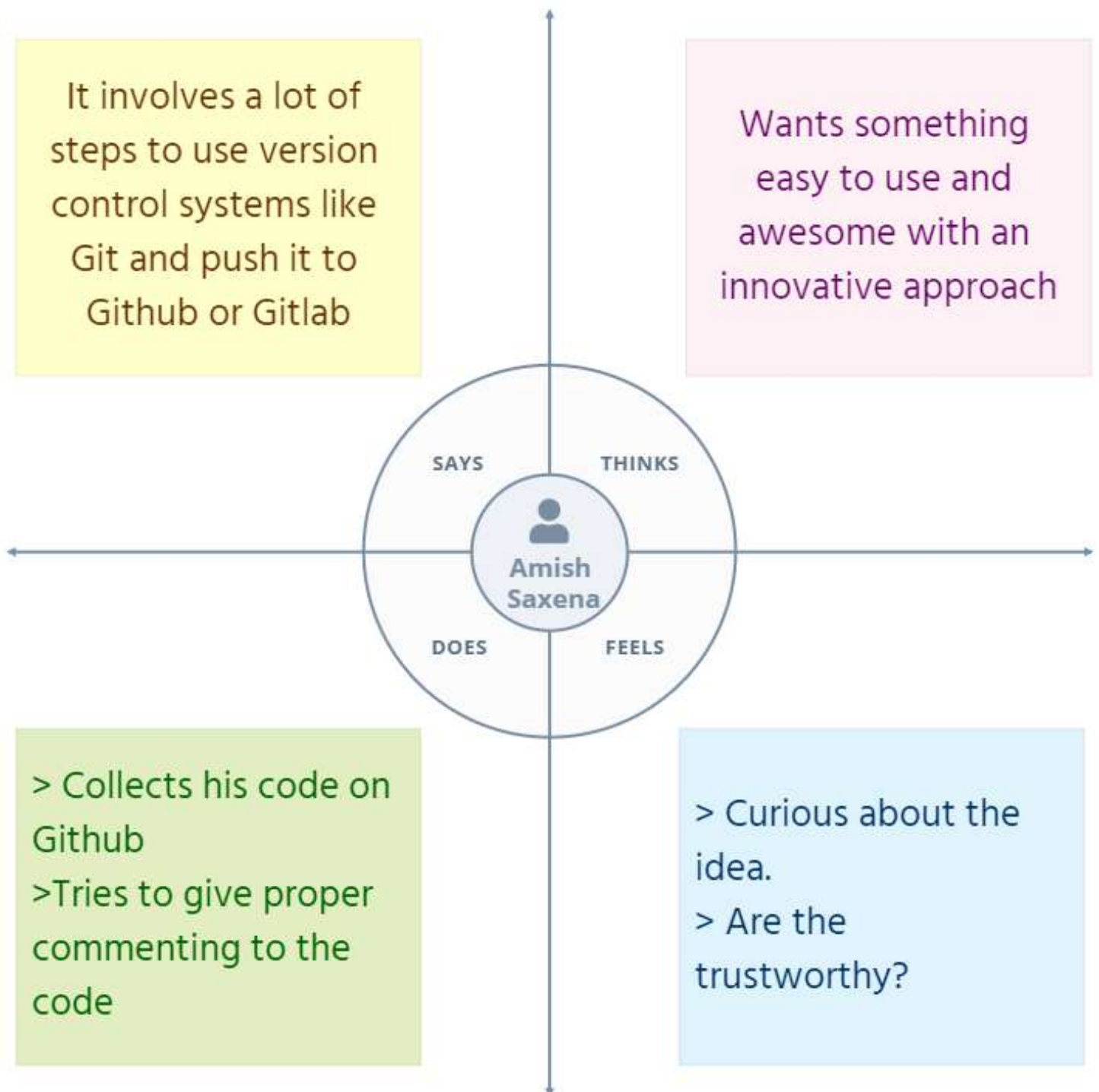
- **Time Saving** : One place for all kind of help
- **Building connections**
- **Beginner friendly environment**
- To learn **new methods and algorithms**

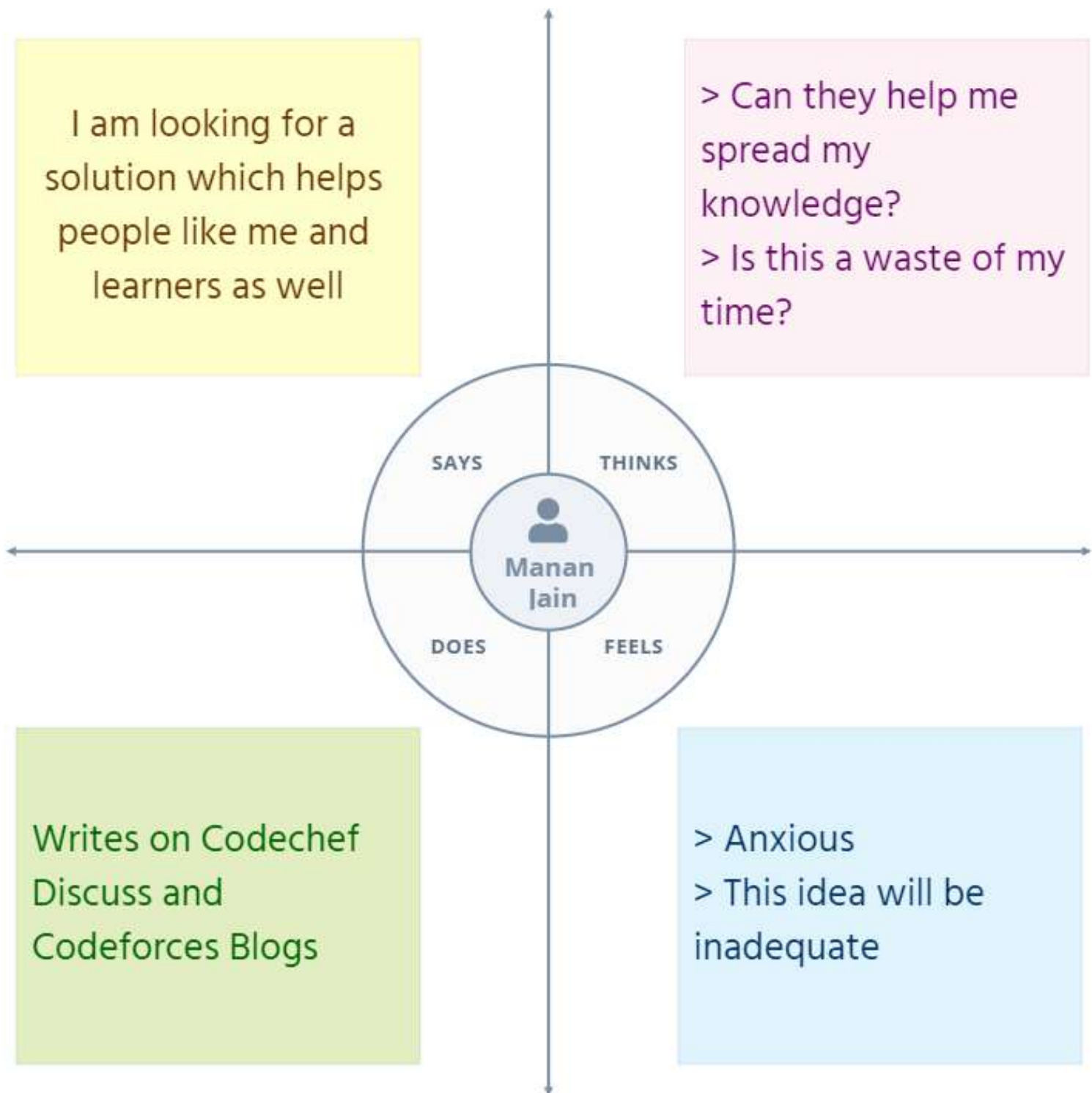
## **ADVANTAGES FOR WRITERS**

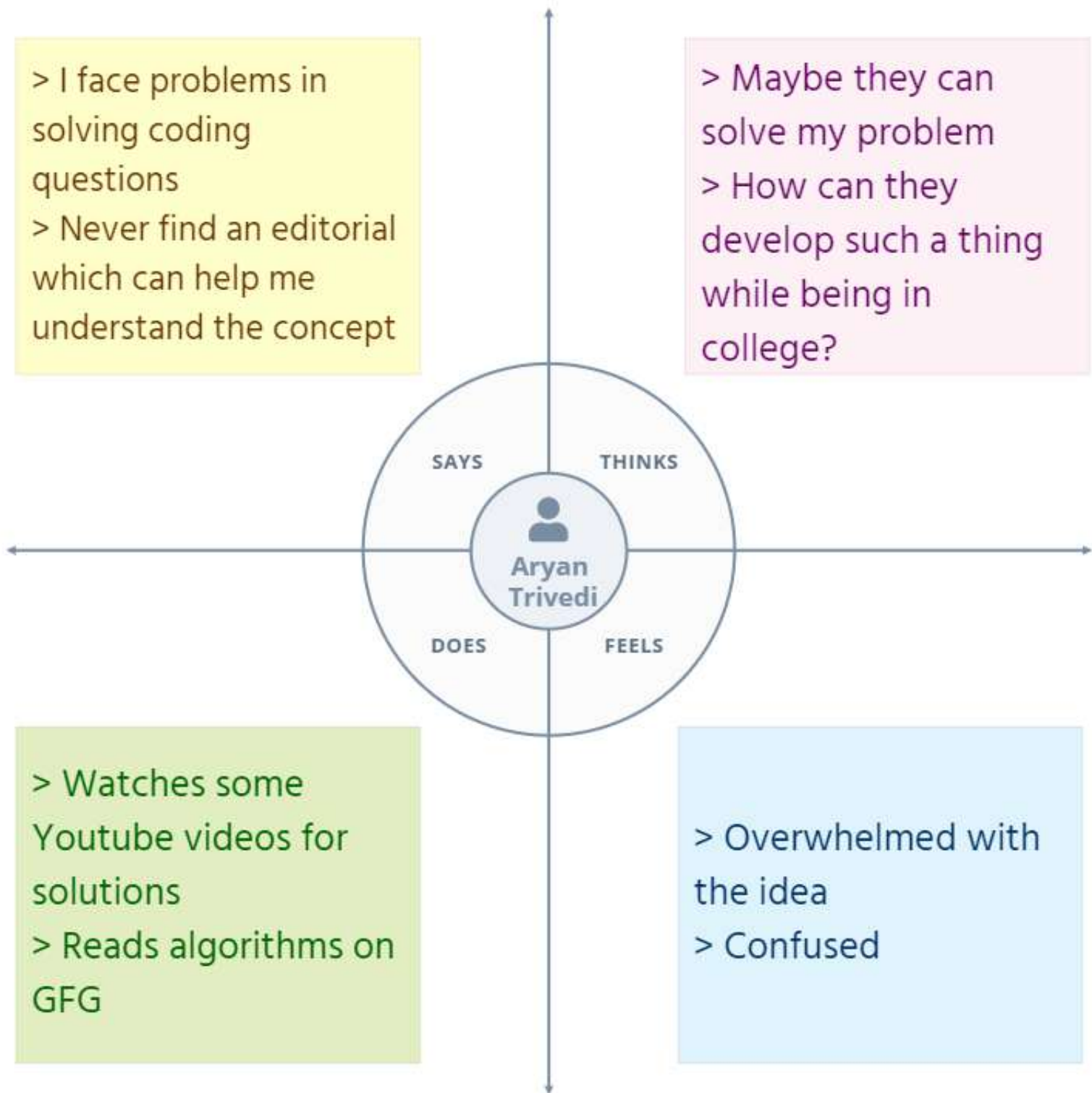
Advantages for the writers are explained below

# PHASE 1-Emphasize

Emphaty map









# User Persona



User persona

## Amish Saxena

Innovative, Curious  
III Year, Undergrad

### BIO

He's an app developer and competitive coder who loves to keep track of his coding stats. He believes that sharing your knowledge is one of the most profitable deal.

### About

**AGE** 21

**LOCATION** Pallakad

### \* GOALS

He wants to become a successful  
Entrepreneur in IT Industry

### \* FRUSTRATIONS

Due to lack of ease to approach  
system on platform to maintain  
code and algorithm for future.



About

**AGE** 18

**LOCATION** Bhopal

User persona

## Aaryan Trivedi

Hardworking , punctual

Fresher, IIT Roorkee

### BIO

He is a hardworking student, cracked JEE Mains and Advanced and grabbed a place in prestigious IIT, He is a CSE student, active on various coding platforms. He believes that consistency is the key to success

### GOALS

want to achieve a job in FAANG company

### \* FRUSTRATIONS

cannot find proper editorial after contest ended. Since editorial provided are hard to imply for a beginner

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User persona :

## Manan Jain

Determined, Empathetic  
Final Year B.Tech Student ,MANIT  
Bhopal

### BIO

He loves to disseminate knowledge . He's a high-rated coder on coding platforms like codeforces , codechef. He believes sharing your knowledge , enhances your wisdom

### About

**AGE** 22

**LOCATION** Indore

### \* GOALS

Being a successful social media influencer . He perceives to share knowledge on other platforms too.

### \* FRUSTRATIONS

Irritated due to lack of platforms where we can share beginner friendly editorials; understood in easy way.

# PHASE 2-Define

## Point Of View (POV)

User	Need	Insight
People having keen interest in Competitive Programming	<ol style="list-style-type: none"><li>1. Wants a platform which provides proper beginner friendly editorials once the official contest gets over.</li><li>2. A platform where one can share their programming knowledge and beginner friendly editorials</li><li>3. Easy to approach platform to maintain their codes and algorithms for future reference</li></ol>	<ol style="list-style-type: none"><li>1. The user wants to have multiple references for a question in an easy to understand language</li><li>2. The user desires to share his programming knowledge in an easy and efficient way</li><li>3. The user wants an alternative to version control systems for maintaining codes and algorithm</li></ol>

## Problem Statement

### User 1

Lack of a platform where one can find the Editorials of recently concluded Coding Competitions

### User 2

Lack of a platform where one can write Editorials and express their knowledge

### User 3

Lack of a platform where one can save their Coding Data for future references

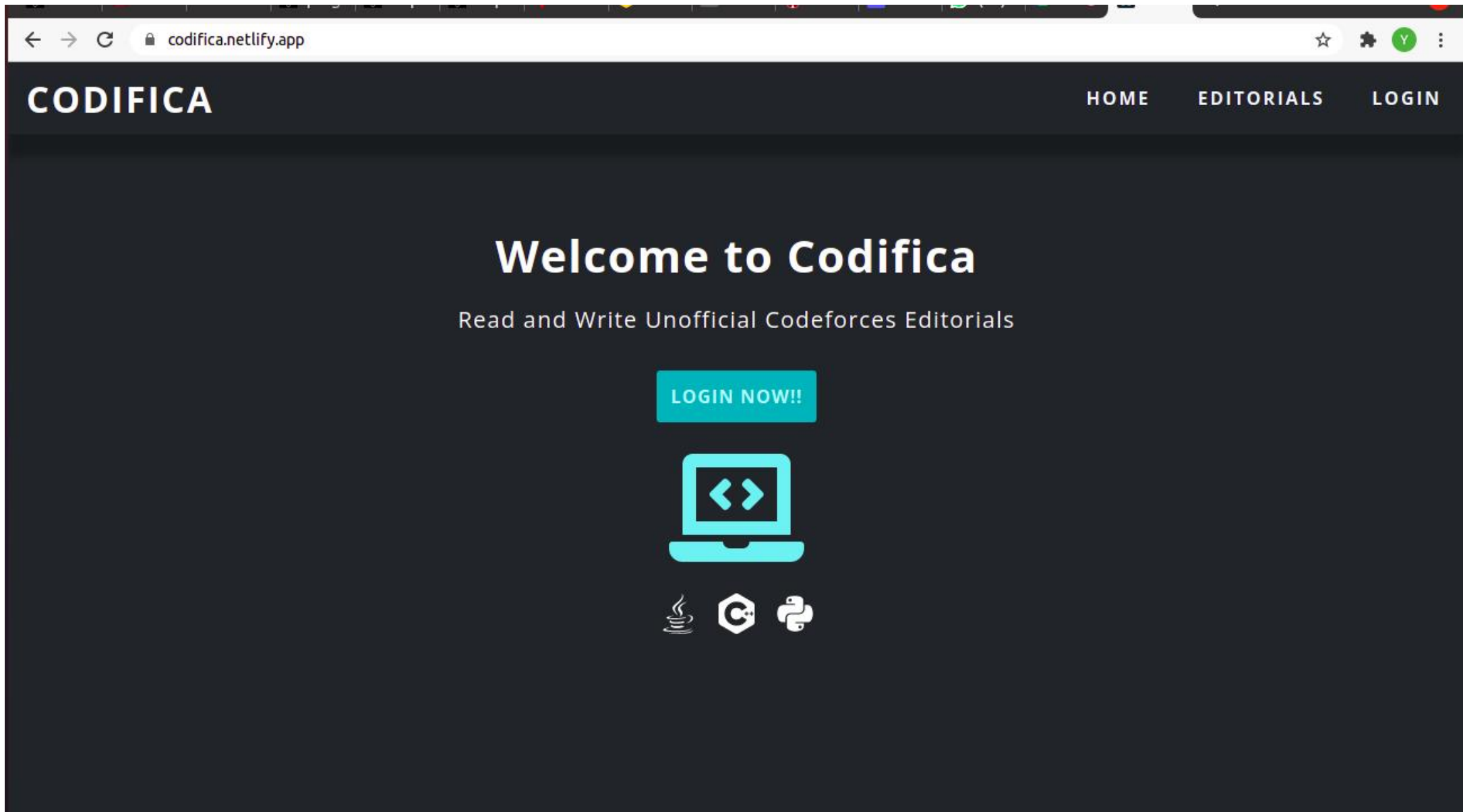
## **Final Problem Statement**

**Lack of a platform to read and write  
Editorials and to save algorithms  
and approaches for future references.**

# PHASE 3-Ideation

Group 4										
Yashi Verma 0801CS191104										
</										

# PHASE 4-Prototype





## Sign Up



SIGNUP

SWITCH TO LOGIN

# Welcome yashi\_002

Read and Write Unofficial Codeforces Editorials

WRITE A EDITORIAL!



**Write your Editorial here!**

ENTER PROBLEM LINK

ENTER EDITORIAL

1

## EDITORIALS

Problem Tags : AllSearch Problem Name : 

## Anton and currency you all know

Contest Id : 508

Greedy Math Strings

Rating : 1300

Language : Java 11

```
1 import java.math.BigInteger;
2 import java.util.*;
3 import java.io.*;
4
5 public class B_Anton_and_currency_you_all_know {
6     public static void main (String[] args) {
7         FastReader scan = new FastReader();
8         String str = scan.nextLine();
9         int n = str.length(), si = -1;
10        int last = str.charAt(n-1) - '0';
11        for (int i=0; i<n-1; i++) {
12            int x = str.charAt(i) - '0';
13            if (x % 2 == 0) {
14                if (x < last) {
15                    si = i;
16                    break;
17                }
18            }
19        }
```

Write your Editorial here!

<https://codeforces.com/contest/318/problem/A>

Editorial by [privanka jain](#)

```
1 import java.util.*;
2 public class even_odd
3 {
4
5     public static void main(String[] args)
6     {
7         Scanner scan=new Scanner(System.in);
8         long n=scan.nextLong();
9         long k=scan.nextLong();
10        long index=0;
11        if(n%2==1)
12        {
13            index=n/2+1;
14        }
15        else
16        {
17            index=n/2;
18        }
19        if(k<=index)
20        System.out.println(2*k-1);
21        else
22        System.out.println(2*(k-index));
23    }
24 }
25
26 }
```

ADD EDITORIAL



# YOUR EDITORIALS

Чет и нечет

Contest Id : 318

Math

Rating : 900

Language : Java 11

```
1 import java.util.*;
2 public class even_odd
3 {
4
5     public static void main(String[] args)
6     {
7         Scanner scan=new Scanner(System.in);
8         Long n=scan.nextLong();
9         Long k=scan.nextLong();
10        Long index=0;
11        if(n%2==1)
12        {
13            index=n/2+1;
14        }
15        else
16        {
17            index=n/2;
18        }
19
20        if(k<=index)
21            System.out.println(2*k-1);
22        else
23            System.out.println(2*(k-index));
24        }
25    }
26 }
```

## YOUR EDITORIALS

Чет и нечет

Contest Id : 318

Math

Rating : 900

Language : Java 11

```
1 import java.util.*;
2 public class even_odd
3 {
4
5     public static void main(String[] args)
6     {
7         Scanner scan=new Scanner(System.in);
8         long n=scan.nextLong();
9         long k=scan.nextLong();
10        long index=0;
11        if(n%2==1)
12        {
13            index=n/2+1;
14        }
15        else
16        {
17            index=n/2;
18        }
19        if(k<=index)
20            System.out.println(2*k-1);
21        else
22            System.out.println(2*(k-index));
23    }
24 }
25
26 }
```

Editorial by priyanka jain

EDIT

DELETE

# Welcome priyankajainmodi

Read and Write Unofficial Codeforces Editorials

WRITE A EDITORIAL!



# Welcome to Codifica

Read and Write Unofficial Codeforces Editorials

LOGIN NOW!!



# PHASE 5-Testing

## Sprint and Test Cases

### Sprint1

▼ COD Sprint 1 12 Oct – 19 Oct (3 issues)

200Complete sprint

...

COD-22

As a reader, I want to have a valid account so that I can login and have access to features of the application

LOGIN

1

TODO

COD-23

As a writer, I want to have a valid account so that I can login and have access to the writing features of the appli...

LOGIN

1









TODO

COD-37

Checking the login functionality

TODO

#### Test Details

- -		✕ Test Step	✕ Test Data	✕ Test Result	✕ Attachments	Action
⋮	1	Login Page using Navigation UX	Clicking on the Login Link takes to the Login Form	Passed	0 attached +	 
⋮	2	Enter Email and Password	Email : mitulgarg2000@gmail.com Password : mitulgarg	Passed (after validations)	0 attached +	 
⋮	3	Click on the Login Button	Clicking on the Login Button sends request to the server for Login	Passed	0 attached +	 
						 

### Sprint 2

▼ COD Sprint 2 Add dates (3 issues)

2100Start sprint

...

COD-26

As a reader, I want a user friendly UI to access the features of the websit...

FEATURES

8

TODO

COD-28

As a writer, I want to have a user friendly platform to share my program...

FEATURES

13

TODO


COD-38

Checking the UI & UX through Navigation



TODO




-	✖ Test Step	✖ Test Data	✖ Test Result	✖ Attachments
1	Click on Login Link	User must be taken to the Login Form	Passed	0 attached +
2	Click on Editorials Link	User must be taken to the Editorials Page	Passed	0 attached +
3	Click on the Write Editorial Link	User must be able to write the Editorial	Passed	0 attached +
4	Click on the My Editorials Link	User must be shown his written editorials	Passed	0 attached +
5	Click on the Logout button	User must be logged out of the application	Passed	0 attached +



## Sprint 3









▼ COD Sprint 3  Add dates (3 issues)

4200Start sprint

 COD-30 As a writer, I want a built in text editor so that its easy to edit and save ... FEATURES 21 TO DO ▼ 

 COD-31 As a writer, I want a text editor which supports most of the popular ... FEATURES  21 TO DO ▼ 

 COD-39 Checking Code Editor - Syntax Highlighting & Languages Supported TO DO ▼ 

-	✖ Test Step	✖ Test Data	✖ Test Result	✖ Attachments	Action
1	Login	Enter valid credentials in the Login Form	Passed	0 attached +	 
2	Go to Write Page	Redirected to Write Form	Passed	0 attached +	 
3	Write Code in the provided Editor	Syntax Highlighting Support for all Languages	Passed	0 attached +	 
					 



# Sprint 4

▼ COD Sprint 4

Add dates

(4 issues)

24

0

0

Start sprint

...

COD-25

As a reader, I want to see solutions/approach of contests so that I can pr...

FEATURES

3

TO DO ▼

COD-27

As a reader, I want to have access to Editorials in all popular languages

FEATURES

8

TO DO ▼

COD-29

As a writer, I want to save my Algorithms and implemented code so that...

FEATURES

13

TO DO ▼

COD-40

Checking that Editorials are displayed properly in all Languages and are saved

TO DO ▼

-	-	✱ Test Step	✱ Test Data	✱ Test Result	✱ Attachments
⋮	1	Login	Enter valid credentials	Passed	0 attached +
⋮	2	Go to My Editorials	Users must be able to see their editorials and to edit and delete them	Passed	0 attached +
⋮	3	Go to Editorials	Users must be able to see editorials added by other users	Passed	0 attached +

# Sprint 5

▼ COD Sprint 5

Add dates

(3 issues)

7

0

0

Start sprint

...

COD-24

As a moderator, I want to have a valid account so that I can login with moder...

LOGIN

2

TO DO ▼

COD-32

As a moderator, I want to have special account rights to remove/ban c...

MODERATION

5

TO DO ▼

COD-41

Checking Moderator Rights

TO DO ▼

+ Create issue

Test Details

Add Step

Columns

		Test Step	Test Data	Test Result	Attachments	Action
	1	Giving Database Access	Able to modify and delete content and accounts	Passed	0 attached	

Implemetation

Link: <https://codifica.netlify.app/>