



Sangamner



Department of Computer Engineering

in association with ISTE student chapter

organises

disha

Forward in the direction of Knowledge

On

31.03.2022

Event 1:- Techtalk....Lead by example

- 1.Atharva Hase, BE Computer Engineering
- 2.Shreesh Singh, BE Computer Engineering



Event 2:- Codathon....We code the future

(Coding event)

Event 3:-Cognitiva....Unlocking logic at the speed of thought

(Quiz event)



Event 4:- Read-O-graphy....Write for your life

(Story about my teenage)



Prof.S.B.Bhonde
Prof.K.U.Rahane

Coordinator

Prof.R.L.Paikrao

Head of department

Dr.M.A.Venkatesh

Principal

Mr.A.B.Shinde

CEO

Codathon Report

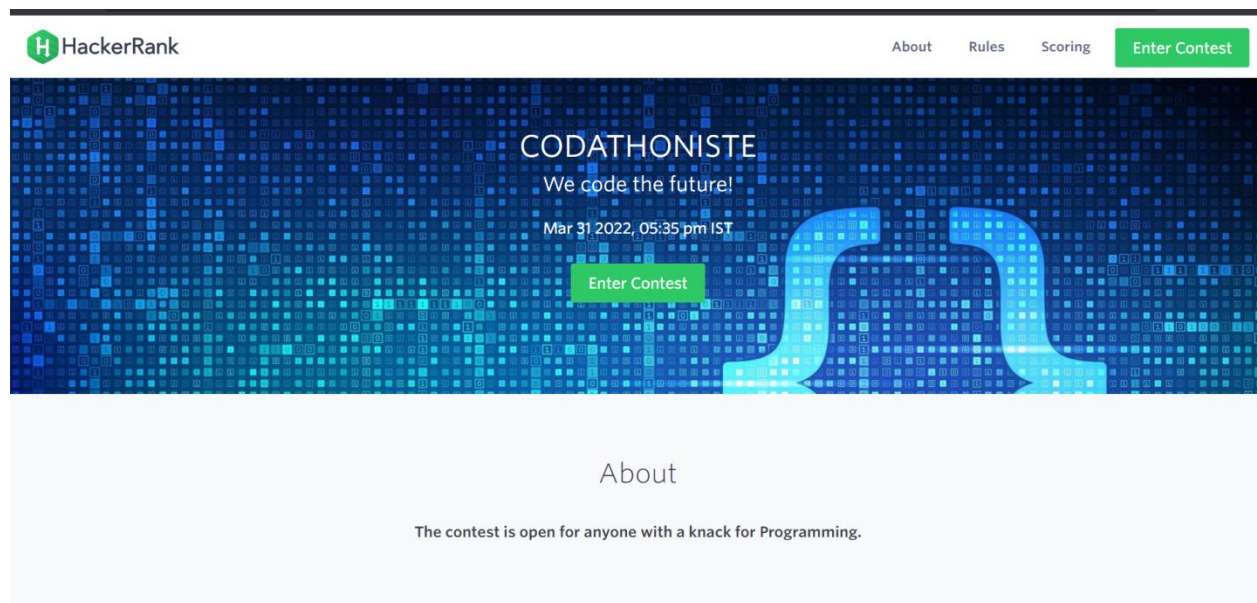
Codathon Event was the sub-event of “Disha”. This event was conducted on 31/03/2022 (Thursday). This event was a coding event which consisted of **3 Questions** of different difficulty. The time allocated for this event was 60 minutes. The event was guided by Ms. S. B. Bhonde & Ms. K. U. Rahane. There were total 28 students who participated in the event.

Objectives of Event:

- 1) To avail an experience of competitive programming.
- 2) To prepare students for the campus recruitment program.

Event Interface:

Home Page



First Page

All Contests > CODATHONISTE

CODATHONISTE [Details](#)

Challenges

GROUPFORM

Success Rate: 6.25% Max Score: 100 Difficulty: Easy

Try Again

EQCOINS 1

Success Rate: 14.29% Max Score: 100 Difficulty: Medium

Solve Challenge

F.R.I.E.N.D.S - The Last One

Success Rate: 25.00% Max Score: 100 Difficulty: Hard

Solve Challenge

Current Rank: N/A

Current Leaderboard

Compare Progress

Review Submissions

Admin Options

Manage Contest

View All Submissions

Question 1.

HackerRank

PREPARE NEW CERTIFY COMPETE

Search

freelint_10

All Contests > CODATHONISTE > GROUPFORM

GROUPFORM

Problem

Submissions

Leaderboard

Finally **Indian Premier League (IPL)** has started

BCCI is planning to separate all teams into different groups. There are $2N$ teams in the IPL, with distinct serial numbers ranging from 1 to $2N$. **Mumbai Indians's** number is X .

The **BCCI** decided to create N groups of 2 teams each. The groups were created as follows: the first group consists of serial numbers 1 and $2N$, the second group of serial numbers 2 and $2N-1$, and so on, with the final group consisting of serial numbers N and $N+1$.

Mumbai Indians wonders who it's partner will be. Can you help **Mumbai Indians** by telling **Mumbai Indians** the serial number of it's partner?

Input Format

- The first and only line of input contains two integers N and X , denoting the number of groups that will be formed, and **Mumbai Indians's** serial number.

Constraints

- $1 \leq T \leq 10^3$
- $1 \leq N \leq 10^8$
- $1 \leq X \leq 2N$

Output Format

Output the serial number of team that will be **Mumbai Indians's** partner

Sample Input 0

```
2 2
```

Sample Output 0

```
3
```

Explanation 0

The groups will be $\{(1,4),(2,3)\}$. **Mumbai Indians's** number is 2, so it's partner's serial number will be 3.

Sample Input 1

```
3 4
```

Sample Output 1

```
3
```

Explanation 1

The groups will be $\{(1,6),(2,5),(3,4)\}$. **Mumbai Indians's** serial number is 4, so it's partner's serial number will be 3.

Submissions: 16

Max Score: 100

Difficulty: Easy

Rate This Challenge:

More

Admin Options

Edit Challenge

View Submissions

Python 3

1

Run Code

Submit Code

Upload Code as File

Test against custom input

Contest Calendar

Interview Prep

Blog

Scoring

Environment

FAQ

About Us

Support

Careers

Terms Of Service

Privacy Policy

Request a Feature

Question 2.

HackerRank

PREPARENEWCERTIFYCOMPETE

Search

freebird_10

All Contests > CODATHONISTE > EQCOINS 1

EQCOINS 1

ProblemSubmissionsLeaderboard

Sahil has X coins worth 1 rupee each and Y coins worth 2 rupees each. He wants to distribute all of these $X+Y$ coins to his **two** sons so that the total value of coins received by each of them is the same. Find out whether Sahil will be able to do so

Input Format

- The first line of input contains a single integer T , denoting the number of testcases. The description of T test cases follows.
- Each test case consists of a single line of input containing two **space-separated** integers X and Y

Constraints

- $1 \leq T \leq 10^3$
- $0 \leq X, Y \leq 10^8$
- $X+Y > 0$

Output Format

For each test case, print "YES" (without quotes) if Sahil can distribute all the coins equally and "NO" otherwise.

Sample Input 0

```
3
2 2
1 3
4 0
```

Sample Output 0

```
YES
NO
YES
```

Explanation 0

Test case 1: Sahil gives each of his sons 1 coin worth one rupee and 1 coin worth two rupees.

Test case 2: Sahil will not able to distribute all of these $X+Y$ coins to his two sons so that the total value of coins received by each of them is the same.

Test case 3: Sahil gives each of his sons 2 coins worth one rupee.

Python 3

1

Run CodeSubmit Code

[Upload Code as File](#) ☐ Test against custom input

Submissions: 14
Max Score: 100
Difficulty: Medium
Rate This Challenge:
☆☆☆☆
[More](#)
Admin Options
[Edit Challenge](#)
[View Submissions](#)

Contest Calendar | Interview Prep | Blog | Scoring | Environment | FAQ | About Us | Support | Careers | Terms Of Service | Privacy Policy | Request a Feature

Question 3.

HackerRank

PREPARE

NEW

CERTIFY

COMPETE

Search

freebird_10

All Contests > CODATHONISTE > F.R.I.E.N.D.S - The Last One

F.R.I.E.N.D.S - The Last One

Problem

Submissions

Leaderboard

Chandler wants to give Joey money as Joey is going through some financial struggles. He believes \$1500 will be enough to pay off the bills. Chandler makes up a game on the spot called "Cups", which has no rules. Every move Joey makes in the "game", Chandler says that he wins a lot of money. Joey, being "smart", finds this out and thus wants to set some rules.

Joey and Chandler have a set of cards, where the value of a card is defined as the product of all the digits of the number printed on that card.

For example, value of the card with the number 7 equals 7, value of the card with the number 203 equals $2 \cdot 0 \cdot 3 = 0$.

The initial number on Joey's card is N (without any leading zeroes). Chandler can make at most K changes on the digits of the number before it gets noticed. In one change, he can choose any digit $x(x \neq 9)$ of the number printed on card and replace it with $x+1$. Find the maximum possible value of Joey's card after making the changes.

Input Format

- First line will contain T, number of testcases. Then the testcases follow.
- For each test case, given two integer N and K, denoting the initial number on Joey's card and the number of changes Chandler can make.

Constraints

- $1 \leq T \leq 10^3$
- $1 \leq N \leq 10^6$
- $0 \leq K \leq 10^6$

Output Format

For each testcase, output in a single line the maximum possible value of Joey's card after making the changes.

Sample Input 0

```
2
1 5
2221 3
```

Sample Output 0

```
6
36
```

Explanation 0

- Test case 1:** Chandler can increase the digit 1 five times to make the final number on card 6.
- Test case 2:** Chandler can increase the first digit of the given number once and the last digit twice. After making these changes, the final number on the card would be 3223, whose value is equal to 36. There are other ways to make changes on the printed number which may lead to one of the following numbers being the resulting number on card : 2233, 2323, 2332, 3232, 3322; note that all these numbers have their values equal to 36 as well.

Python 3

1

Upload Code as File

Test against custom input

Run Code

Submit Code

[Contest Calendar](#) | [Interview Prep](#) | [Blog](#) | [Scoring](#) | [Environment](#) | [FAQ](#) | [About Us](#) | [Support](#) | [Careers](#) | [Terms Of Service](#) | [Privacy Policy](#) | [Request a Feature](#)

Leaderboard

Leaderboard

All Friends Filter by Select filter					Type username to compare	Compare
Rank	User	Score	Time	Country		
1	suhasledange10	250.00	1:45:37			
2	harshchhaged25	200.00	21:16			
3	shanusingh1199	75.00	58:40			
4	manthandeshmukh5	70.00	1:31:35			
5	vishalsuryawans5	50.00	19:31			
5	akankshatalele	50.00	28:54			
5	anshukasar8884	50.00	48:07			
8	chintan21t	25.00	16:09			
8	sangale_sakshi10	25.00	36:22			
8	gadekar_shreya11	25.00	38:39			
8	bulkundeshubham1	25.00	44:04			
12	rutujashinde2501	20.00	54:11			
12	kulkarniaditi953	20.00	57:23			

Winners:

1. Suhas Ramchandra Ledange
2. Harsh Chhaged
3. Shanu Singh

Event Gallery



Event Outcomes:

- Increase in logical thinking.
- Able to rate own knowledge of programming.

Event Coordinators:

Faculty Coordinators

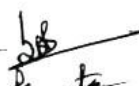
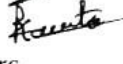
Ms. S.B.Bhonde

Ms. K.U.Rahane.

Student Coordinators

Mr. Shivraj Dilip Kolpe

Mr. Ankush Shivaji Kolhe

Ms. S. B. Bhonde - 
Ms. K. U. Rahane 
Event Coordinators


Prof. R. L. Paikrao
Head of Department

Cognitiva Report

Cognitiva Event was the sub-event of “Disha”. This event was conducted on 31/03/2022(Thursday). It was a technical quiz competition conducted in total three levels i.e., Level 1 was easy and consisted of 3 questions, Level 2 was moderate in which also there were 3 questions and Level 3 was difficult in which 4 questions were there. The platform used for conducting this event was “Quizziz.com”. The event was guided by Ms. S. B. Bhonde and Ms. K. U. Rahane. There were total 49 students who participated in the event. The performance of all the students was excellent.

Objectives of Event:

- 1) To provide best possible training for the students through continuous training module.
- 2) To prepare students for the campus recruitment program.
- 3) To counsel the students to improve their career exposure across the Industry.
- 4) To produce the most competitive man power to fit in all scenario of the job market.

Event Questions:

*The option with red color is the correct option.

Level 1:

Easy

1. What is the output of the expression?

```
print(-18 // 4)
```

- a. -4
- b. 4
- c. -5
- d. 5

2. What will be the output of the following Python program?

```
i = 0
while i < 5:
    print(i)
    i += 1
    if i == 3:
        break
else:
    print(0)
```

- a. error
- b. 0 1 2 0
- c. 0 1 2
- d. none of the mentioned

3. Which of the following type is provided by C++ but not C?

- a. double
- b. float
- c. int
- d. bool

Moderate

4. In which language is Python written?

- a. C
- b. C++
- c. Java
- d. All the above

5. What is the output of the following python code?

```
#include <iostream>
#include <string>
using namespace std;
int main ()
{
    std::string str ("Cognitiva.");
    str.back() = '!';
    cout << str << endl;
    return 0;
}
```

- a. Cognitiva!
 - b. Cognitiva!.
 - c. Cognitiva.
 - d. Cognitiva.!
6. What is the number of edges present in a complete graph having n vertices?
- a. $(n*(n+1))/2$
 - b. $(n*(n-1))/2$
 - c. N
 - d. Information given is insufficient.

Difficult

7. Time Complexity of this program is :

```
def f(n):  
    if n == 0 or n == 1:  
        return 1  
    return f(n - 1) + f(n - 2)
```

- a. $O(\log n)$
 - b. $O(n)$
 - c. $O(n^2)$
 - d. $O(2^n)$
8. What will be the output of the given code?

```
int doSomething(int a, int b)  
{  
    if (b==1) {  
        return a;  
    } else {  
        return a + doSomething(a,b-1);  
    }  
}  
doSomething(2,3);
```

- a. 4

b. 2

c. 3

d. 6

9. What will the given function do?

```
void fun1(struct node* head)
{
    if(head == NULL)
        return;
    fun1(head->next);
    printf("%d ", head->data);
}
```

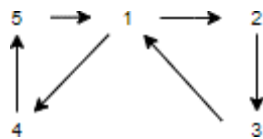
a. It will print all nodes of the linked lists.

b. It will print all the nodes of linked list in reverse order.

c. It will print alternate nodes of the Linked List.

d. It will print alternate nodes in reverse order.

10. Which of the following is a possible result of depth first traversal of the given graph (consider 1 to be source element)?



a. 1 2 3 4 5

b. 1 2 3 1 4 5

c. 1 4 5 3 2

d. 1 4 5 1 2 3

Participants for Event:

1. Vaishnavi Avinash Sonawane
2. Kadam Gaurav Sanjay
3. Anish Bapusaheb Vidhate
4. Ashish Ramesh Walke
5. Sakshi Vilas Sangale

6. Rutuja Shinde
7. Shreya Gadekar
8. Nachiket Nyati
9. Lawande Abhay Subhash
10. Akash Babasaheb Lawande
11. Vishal Suryawanshi
12. Prajwal Pradip Ukhalkar
13. Janhavi Nitin Sonawane
14. Sushant Jagdish Mahale
15. Vaishnavi Minanath Shepal
16. Saiprasad Shidhehware
17. Viren karad
18. Madhura Gajanan Barve
19. Aditi Mukund Kulkarni
20. Rutuja Jalindar Athare
21. Om Bhausahab Pansare
22. Dnyaneshwari Somna Madane
23. Atharva Ashokrao Rahinj
24. Pranali Nanasaheb Kolhe*
25. Om Gadhave
26. Shrikant Nandkumar Labade
27. Suhas Ramchandra Ledange
28. Akanksha Rohidas Talele
29. Sanjivani Pandurang Dhand
30. Manthan Deshmukh
31. Gayatri Badrinath Kokate
32. Rushikesh Patil
33. Tejas Perane
34. Dhomse Apeksha Bajirao
35. Ekta Subhash Jakhad

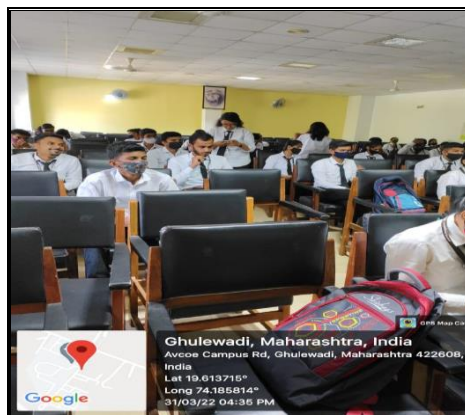
- 36.Shubham Bulkunde.
- 37.Anshu Balasaheb kasar
- 38.Urmila Uttam Barkade*
- 39.Shanu singh
- 40.Rohit Dattatray Mengal
- 41.Pardeshi Nikita
- 42.Sahil Gaikwad
- 43.Vaishnavi Dattatray Tajan
- 44.Shaikh Arshan Anil
- 45.Payal Yeole
- 46.Nikita Gaikwad
- 47.Pratiksha Bhalekar
- 48.Pratiksha Nivrutti Palve
- 49.Onkar Popat Thombre

Winners:

- 1. Vaishnavi Avinash Sonawane
- 2. Gaurav Sanjay Kadam
- 3. Anish Bapusaheb Vidhate

Event Gallery





Event Outcomes:

- Increase in thinking skills of the participants.
- Development in focus of participants.
- Provides a brain exercise to participants.
- Provides a Significant Technical Edge during Job Interviews.

Event Coordinators:

Faculty Coordinators

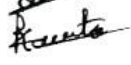
Ms. S. B. Bhonde

Ms. K. U. Rahane.

Student Coordinators

Mr. Chaitanya Mukund Joshi.

Mr. Pranav Prasannakumar Joshi.

Ms. S. B. Bhonde - 
Ms. K. U. Rahane - 
Event Coordinators


Prof. R. L. Paikrao
Head of Department

Read-o-graphy Report

Read-o-graphy was the sub-event of “Disha”. It was conducted on 31/03/2022. It was a single round event. We had Prof. R. L. Paikrao, Head of Department as our jury for this event. There were total 9 participants. Each participant explored their teenage, narrated their school and college life funny incidences, their learning from mistakes and even punishments given by their staff. We really enjoyed this event.

Event Objectives:

- To build confidence in public speaking.
- To develop soft skills & enhance communication.

Event Rules:

- Narration should be in language, which is comfortable for you.
- Time limit is 5 to 7 minutes.
- Evaluation Criteria -
 1. Voice Tone
 2. English Fluency
 3. Vocabulary
 4. Body Language

Participants List:

1. Tajane Chintan
2. Todmal Mrudula
3. Gadakh Mayur
4. Mantri Kaustubh
5. Walunj Sakshi
6. Nawale Sanket
7. Hase Pratiksha
8. Kuldharan Pratiksha
9. Kale Shraddha

Event Gallery:



Winners:

First – Tie in Walunj Sakshi and Tajane Chintan.

Third - Kuldharan Pratiksha

Event Co-ordinators:

Faculty Co-ordinators: 1. Prof. S. B. Bhonde

2. Prof. K. U. Rahane

Student Co-ordinators: 1. Ms. Anal Ambare

2. Ms. Priti Bhagwat

3. Ms. Saloni Deshmukh

Ms. S. B. Bhonde -

Ms. K. U. Rahane

Event Coordinators

Prof. R. L. Paikrao
Head of Department