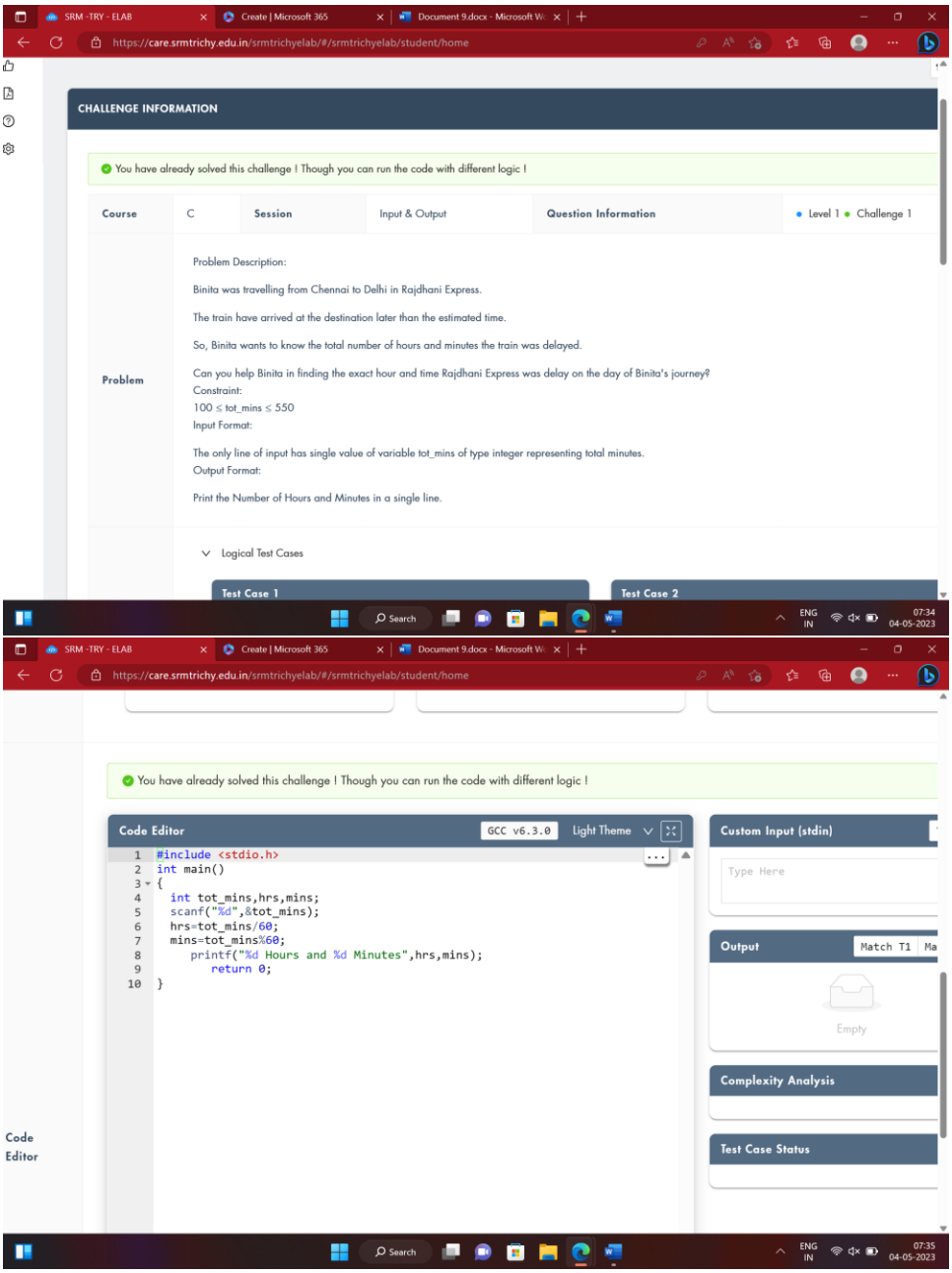
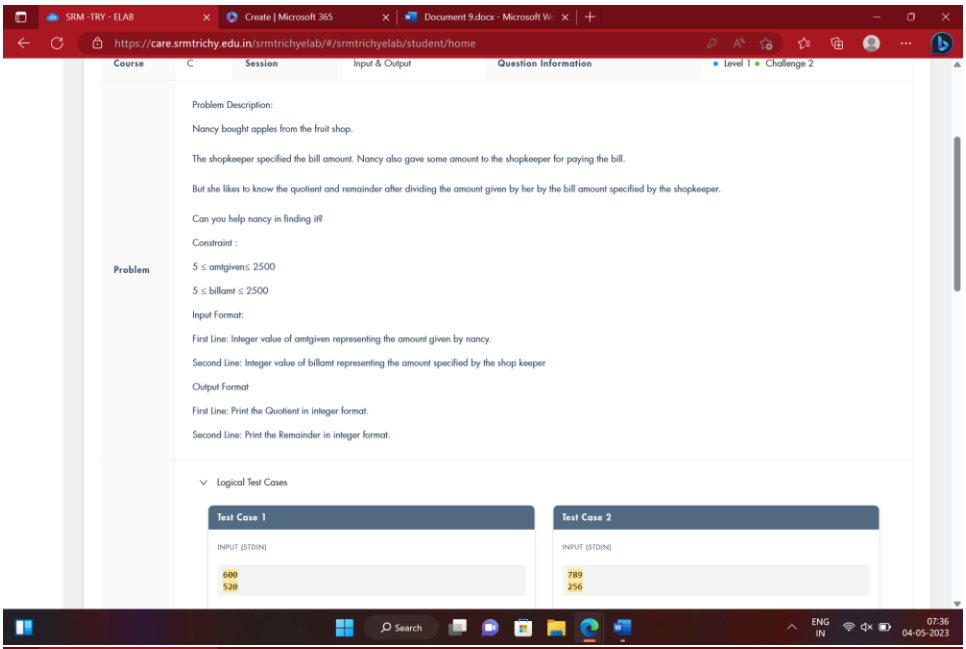
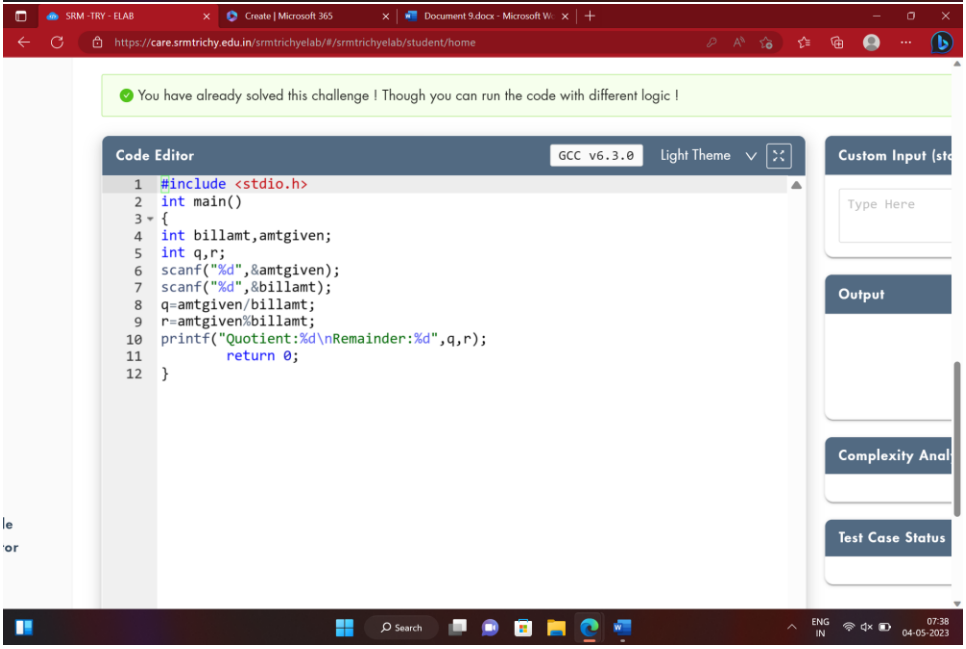
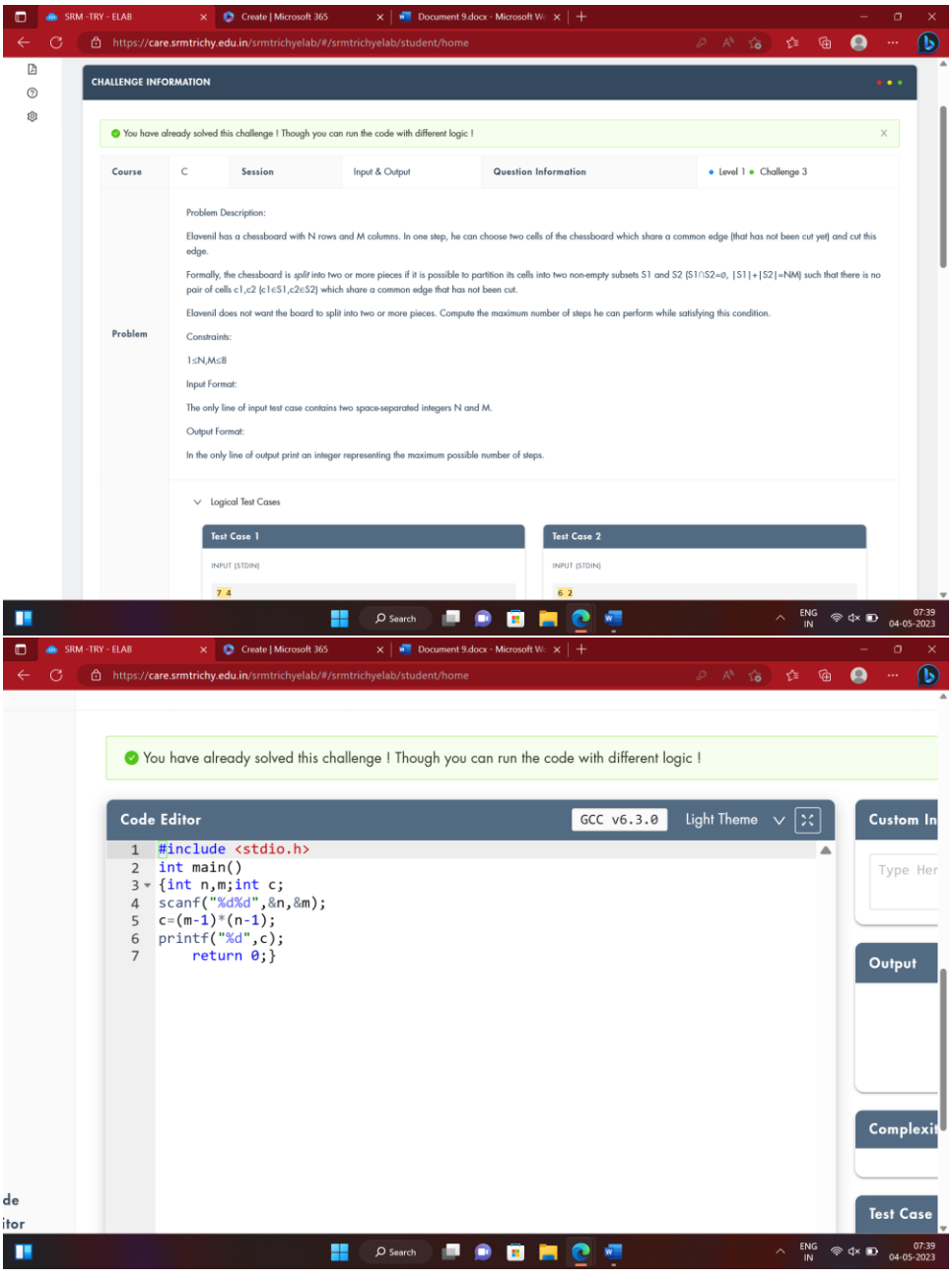
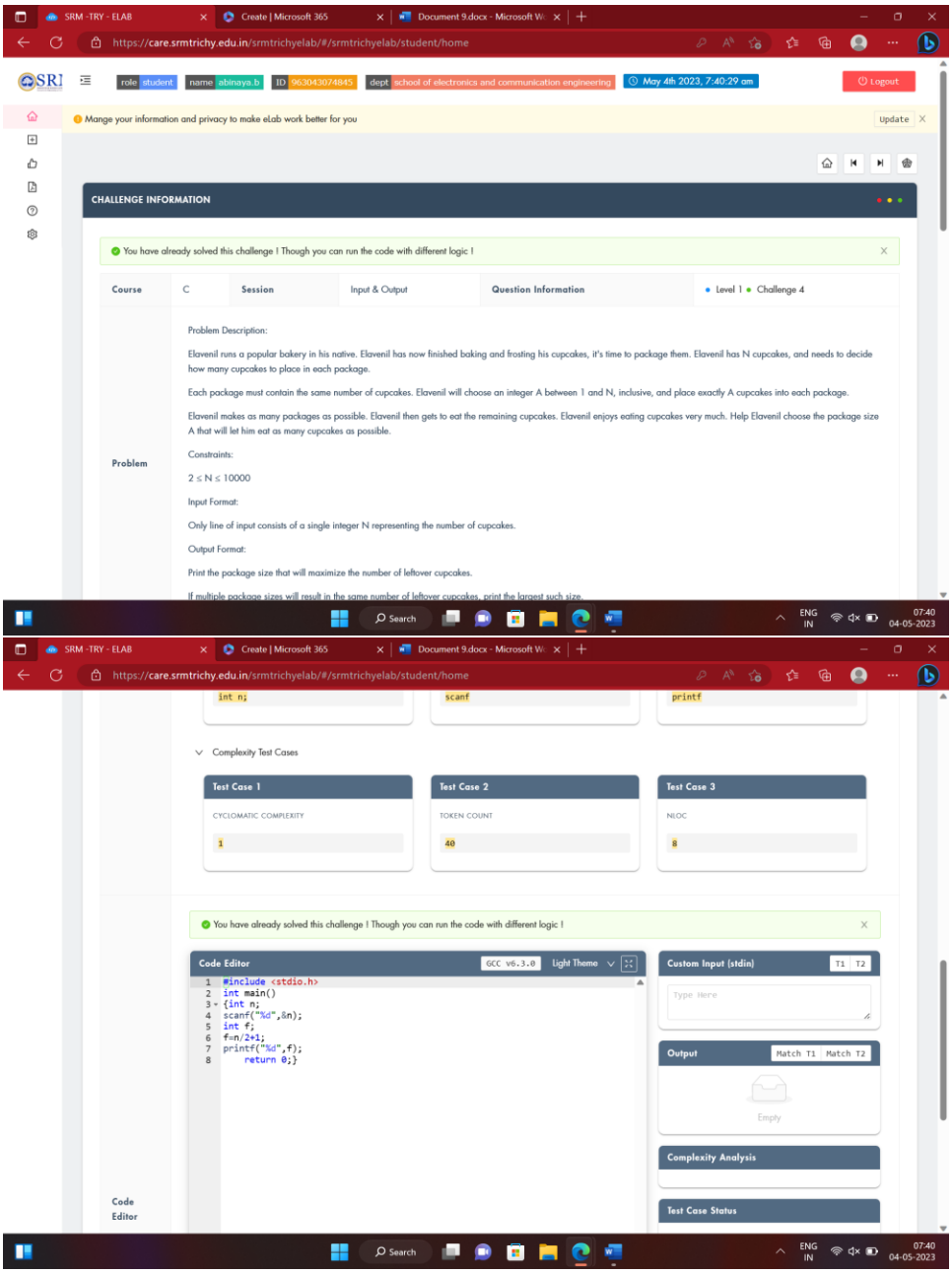

SRM -TRY - ELAB
Create | Microsoft 365
Document 9.docx - Microsoft W
https://care.srmtrichy.edu.in/srmtrichyelab/#/srmtrichyelab/student/home
CHALLENGE INFORMATION
You have already solved this challenge ! Though you can run the code with different logic !
Course
C
Session
Input & Output
Question Information
Level 1 • Challenge 1
Problem
Problem Description:
Binita was travelling from Chennai to Delhi in Rajdhani Express.
The train have arrived at the destination later than the estimated time.
So, Binita wants to know the total number of hours and minutes the train was delayed.
Can you help Binita in finding the exact hour and time Rajdhani Express was delay on the day of Binita's journey?
Constraint:
100 ≤ tot_mins ≤ 550
Input Format:
The only line of input has single value of variable tot_mins of type integer representing total minutes.
Output Format:
Print the Number of Hours and Minutes in a single line.
Logical Test Cases
Test Case 1
Test Case 2
Search
ENG
IN
07:34
04-05-2023
SRM -TRY - ELAB
Create | Microsoft 365
Document 9.docx - Microsoft W
https://care.srmtrichy.edu.in/srmtrichyelab/#/srmtrichyelab/student/home
You have already solved this challenge ! Though you can run the code with different logic !
Code Editor
GCC v6.3.0
Light Theme
#include <stdio.h>
int main()
{
int tot_mins,hrs,mins;
scanf("%d",&tot_mins);
hrs=tot_mins/60;
mins=tot_mins%60;
printf("%d Hours and %d Minutes",hrs,mins);
return 0;
}
Custom Input (stdin)
Type Here
Output
Match T1
Ma
Empty
Complexity Analysis
Test Case Status
Code Editor
Search
ENG
IN
07:35
04-05-2023

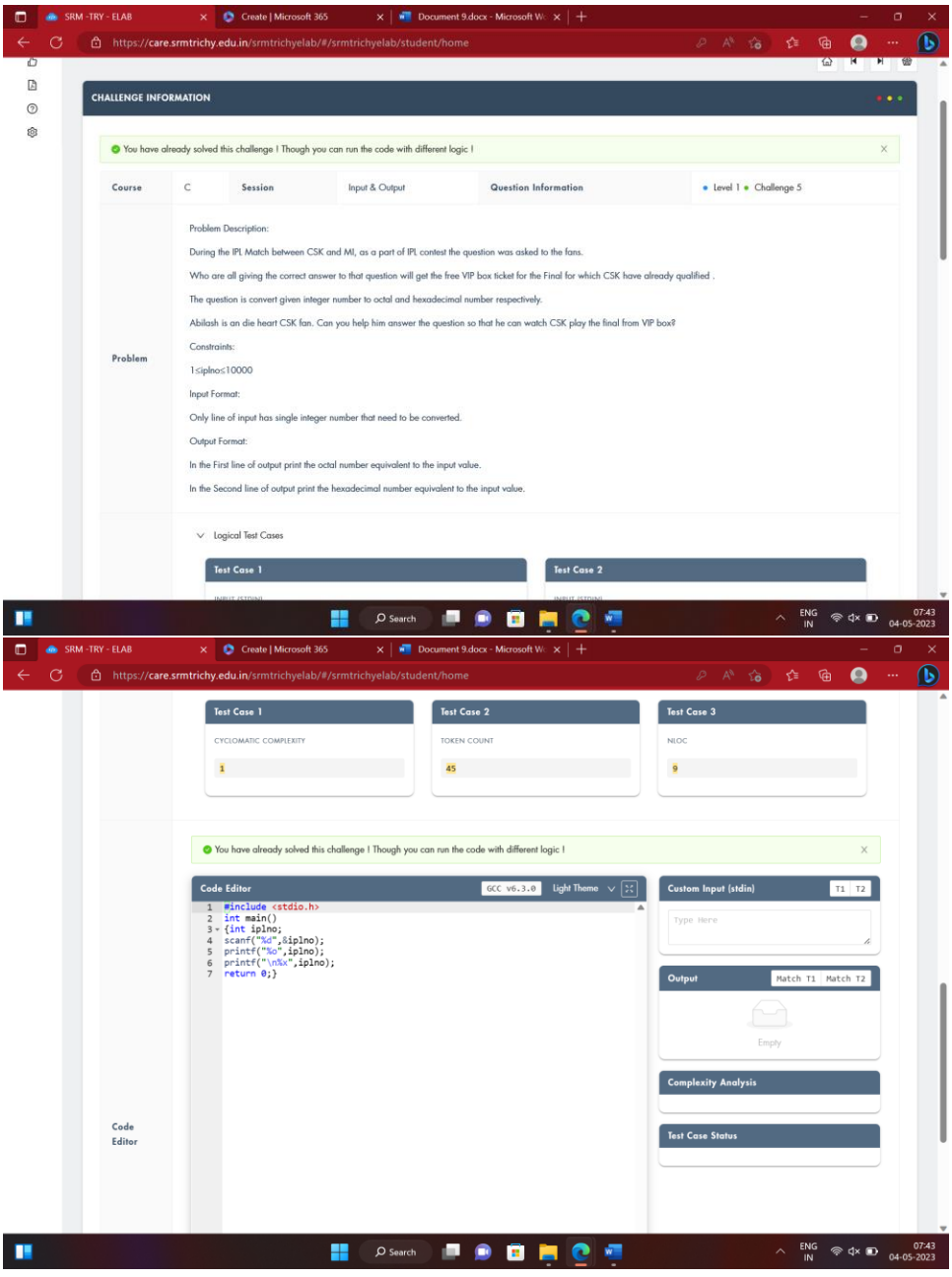

SRM -TRY - ELAB
Create | Microsoft 365
Document 9.docx - Microsoft W
https://care.srmtrichy.edu.in/srmtrichyelab/#/srmtrichyelab/student/home
Course
C
Session
Input & Output
Question Information
Level 1 • Challenge 2
Problem
Problem Description:
Nancy bought apples from the fruit shop.
The shopkeeper specified the bill amount. Nancy also gave some amount to the shopkeeper for paying the bill.
But she likes to know the quotient and remainder after dividing the amount given by her by the bill amount specified by the shopkeeper.
Can you help nancy in finding it?
Constraint :
5 ≤ amtgiven≤ 2500
5 ≤ billamt ≤ 2500
Input Format:
First Line: Integer value of amtgiven representing the amount given by nancy.
Second Line: Integer value of billamt representing the amount specified by the shop keeper
Output Format
First Line: Print the Quotient in integer format.
Second Line: Print the Remainder in integer format.
Logical Test Cases
Test Case 1
INPUT (STDIN)
600
520
Test Case 2
INPUT (STDIN)
789
256
Search
ENG
IN
07:36
04-05-2023


SRM -TRY - ELAB
Create | Microsoft 365
Document 9.docx - Microsoft W
https://care.srmtrichy.edu.in/srmtrichyelab/#/srmtrichyelab/student/home
You have already solved this challenge ! Though you can run the code with different logic !
Code Editor
GCC v6.3.0
Light Theme
Custom Input (st
Type Here
Output
Complexity Anal
Test Case Status
#include <stdio.h>
int main()
{
int billamt,amtgiven;
int q,r;
scanf("%d",&amtgiven);
scanf("%d",&billamt);
q=amtgiven/billamt;
r=amtgiven%billamt;
printf("Quotient:%d\nRemainder:%d",q,r);
return 0;
}
Search
ENG
IN
07:38
04-05-2023

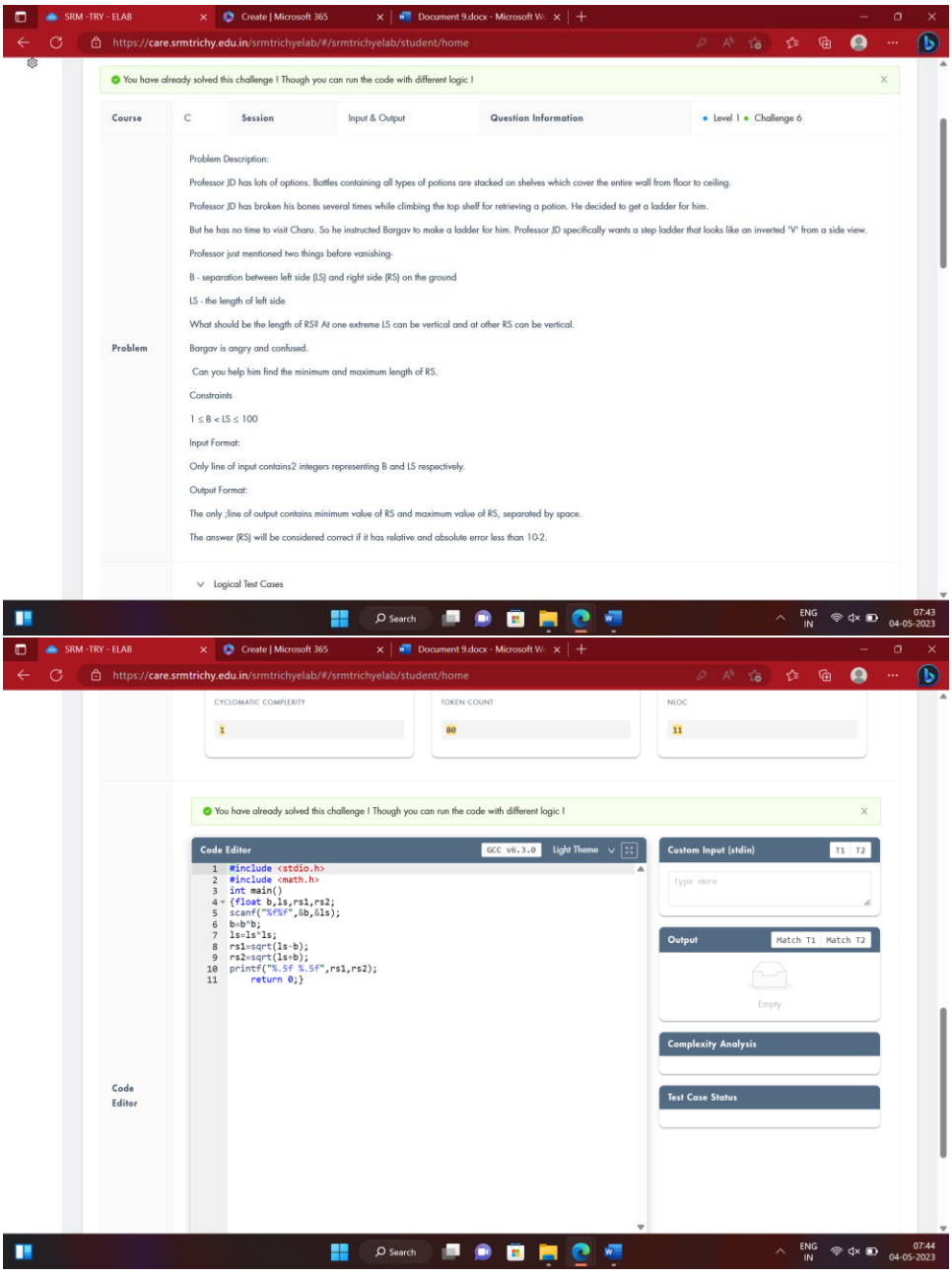

SRM -TRY - ELAB
Create | Microsoft 365
Document 9.docx - Microsoft W
https://care.srmtrichy.edu.in/srmtrichyelab/#/srmtrichyelab/student/home
CHALLENGE INFORMATION
You have already solved this challenge ! Though you can run the code with different logic !
Course
C
Session
Input & Output
Question Information
Level 1
Challenge 3
Problem
Problem Description:
Elavenil has a chessboard with N rows and M columns. In one step, he can choose two cells of the chessboard which share a common edge (that has not been cut yet) and cut this edge.
Formally, the chessboard is split into two or more pieces if it is possible to partition its cells into two non-empty subsets S1 and S2 (S1∩S2=∅, |S1|+|S2|=NM) such that there is no pair of cells c1,c2 (c1∈S1,c2∈S2) which share a common edge that has not been cut.
Elavenil does not want the board to split into two or more pieces. Compute the maximum number of steps he can perform while satisfying this condition.
Constraints:
1≤N,M≤8
Input Format:
The only line of input test case contains two space-separated integers N and M.
Output Format:
In the only line of output print an integer representing the maximum possible number of steps.
Logical Test Cases
Test Case 1
INPUT (STDIN)
7 4
Test Case 2
INPUT (STDIN)
6 2
Search
ENG
IN
07:39
04-05-2023

SRM -TRY - ELAB
Create | Microsoft 365
Document 9.docx - Microsoft W
https://care.srmtrichy.edu.in/srmtrichyelab/#/srmtrichyelab/student/home
You have already solved this challenge ! Though you can run the code with different logic !
Code Editor
GCC v6.3.0
Light Theme
Custom In
Type Her
Output
Complexit
Test Case
#include <stdio.h>
int main()
{int n,m;int c;
scanf("%d%d",&n,&m);
c=(m-1)*(n-1);
printf("%d",c);
return 0;}
Search
ENG
IN
07:39
04-05-2023

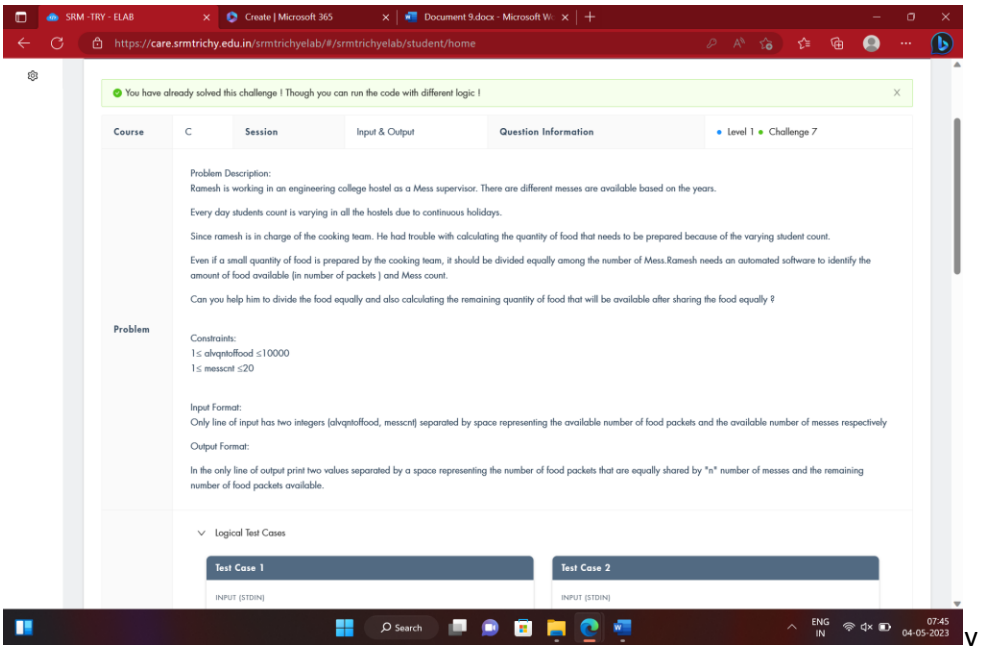

SRM -TRY - ELAB
Create | Microsoft 365
Document 9.docx - Microsoft W
https://care.srmtrichy.edu.in/srmtrichyelab/#/srmtrichyelab/student/home
role student
name abinaya.b
ID 963043074845
dept school of electronics and communication engineering
May 4th 2023, 7:40:29 am
Logout
Mange your information and privacy to make eLab work better for you
Update
CHALLENGE INFORMATION
You have already solved this challenge ! Though you can run the code with different logic !
Course
C
Session
Input & Output
Question Information
Level 1
Challenge 4
Problem
Problem Description:
Elavenil runs a popular bakery in his native. Elavenil has now finished baking and frosting his cupcakes, it's time to package them. Elavenil has N cupcakes, and needs to decide how many cupcakes to place in each package.
Each package must contain the same number of cupcakes. Elavenil will choose an integer A between 1 and N, inclusive, and place exactly A cupcakes into each package.
Elavenil makes as many packages as possible. Elavenil then gets to eat the remaining cupcakes. Elavenil enjoys eating cupcakes very much. Help Elavenil choose the package size A that will let him eat as many cupcakes as possible.
Constraints:
2 ≤ N ≤ 10000
Input Format:
Only line of input consists of a single integer N representing the number of cupcakes.
Output Format:
Print the package size that will maximize the number of leftover cupcakes.
If multiple package sizes will result in the same number of leftover cupcakes, print the largest such size.
Search
ENG
IN
07:40
04-05-2023
int n;
scanf
printf
Complexity Test Cases
Test Case 1
CYCLOMATIC COMPLEXITY
1
Test Case 2
TOKEN COUNT
40
Test Case 3
NLOC
8
You have already solved this challenge ! Though you can run the code with different logic !
Code Editor
GCC v6.3.0
Light Theme
1 #include <stdio.h>
2 int main()
3 {int n;
4 scanf("%d",&n);
5 int f;
6 f=n/2+1;
7 printf("%d",f);
8 return 0;}
Custom Input (stdin)
T1
T2
Type Here
Output
Match T1
Match T2
Empty
Complexity Analysis
Test Case Status
Code Editor

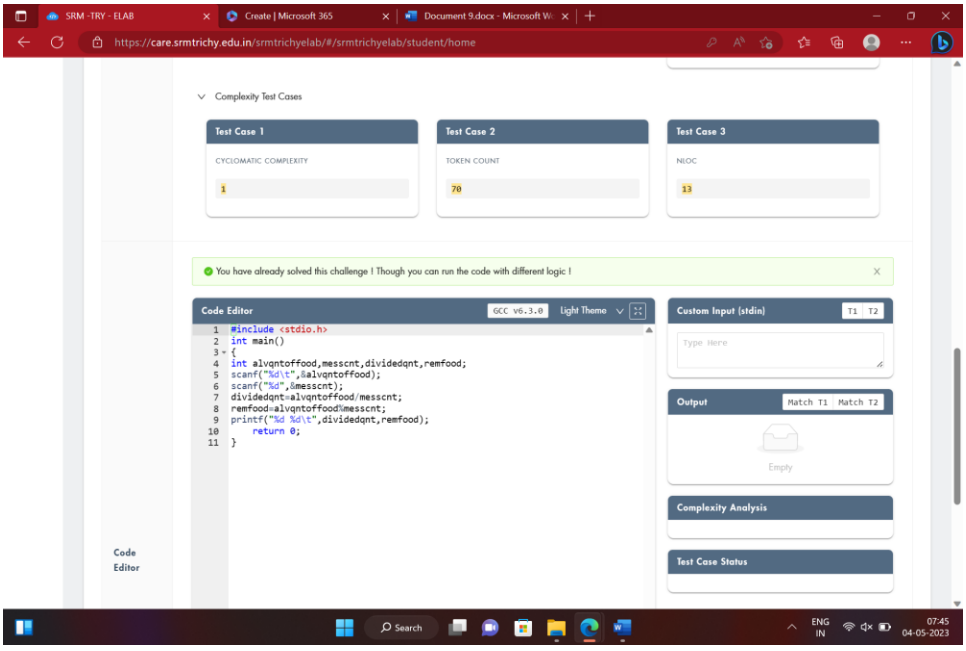

SRM -TRY - ELAB
Create | Microsoft 365
Document 9.docx - Microsoft W
https://care.srmtrichy.edu.in/srmtrichyelab/#/srmtrichyelab/student/home
CHALLENGE INFORMATION
You have already solved this challenge ! Though you can run the code with different logic !
Course
C
Session
Input & Output
Question Information
Level 1 • Challenge 5
Problem
Problem Description:
During the IPL Match between CSK and MI, as a part of IPL contest the question was asked to the fans.
Who are all giving the correct answer to that question will get the free VIP box ticket for the Final for which CSK have already qualified .
The question is convert given integer number to octal and hexadecimal number respectively.
Abilash is an die heart CSK fan. Can you help him answer the question so that he can watch CSK play the final from VIP box?
Constraints:
1≤iplno≤10000
Input Format:
Only line of input has single integer number that need to be converted.
Output Format:
In the First line of output print the octal number equivalent to the input value.
In the Second line of output print the hexadecimal number equivalent to the input value.
Logical Test Cases
Test Case 1
Test Case 2
Search
ENG
IN
07:43
04-05-2023

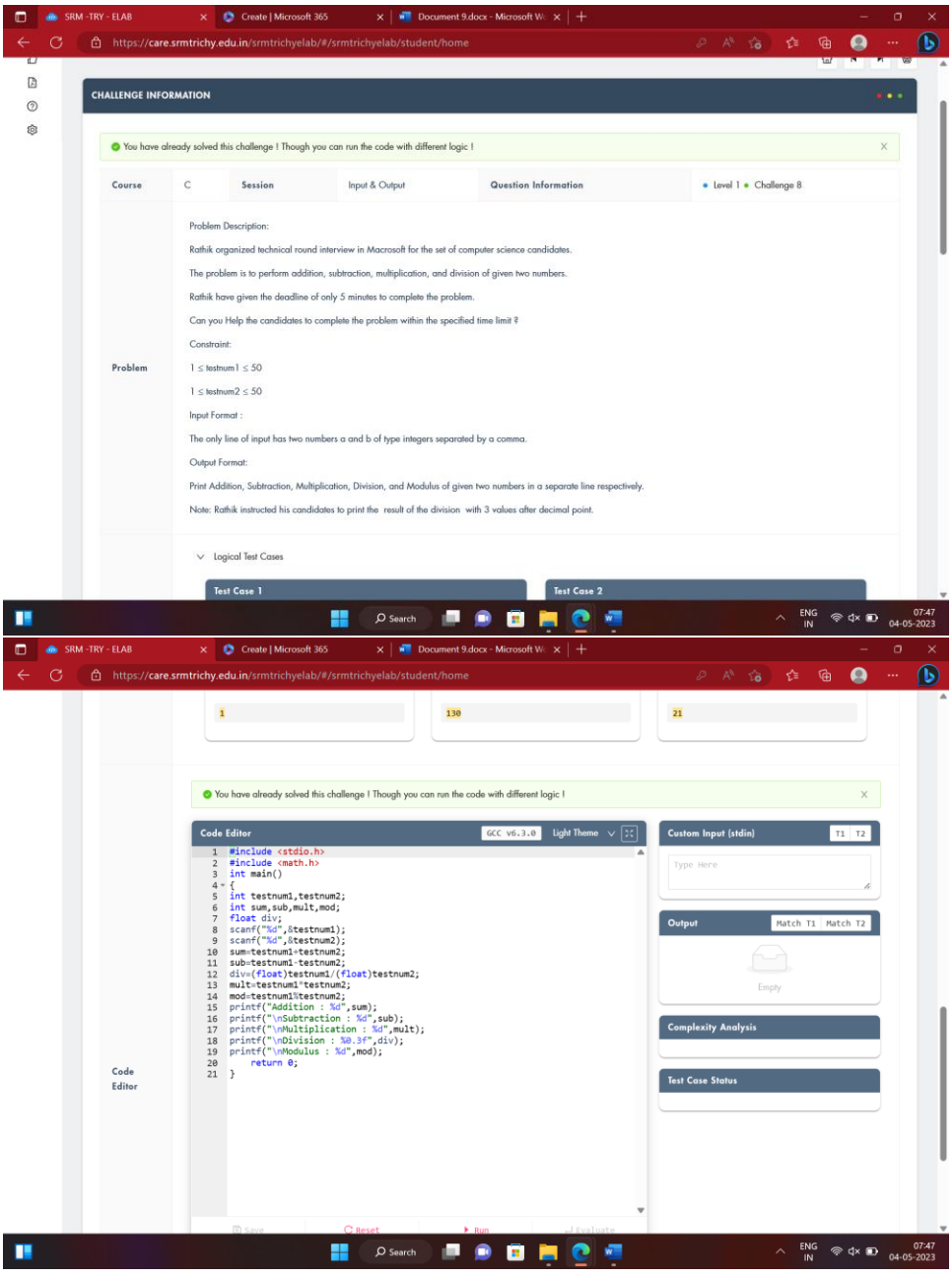
SRM -TRY - ELAB
Create | Microsoft 365
Document 9.docx - Microsoft W
https://care.srmtrichy.edu.in/srmtrichyelab/#/srmtrichyelab/student/home
Test Case 1
CYCLOMATIC COMPLEXITY
1
Test Case 2
TOKEN COUNT
45
Test Case 3
NLOC
9
You have already solved this challenge ! Though you can run the code with different logic !
Code Editor
GCC v6.3.0
Light Theme
1 #include <stdio.h>
2 int main()
3 {int iplno;
4 scanf("%d",&iplno);
5 printf("%o",iplno);
6 printf("\n%x",iplno);
7 return 0;}
Custom Input (stdin)
T1
T2
Type Here
Output
Match T1
Match T2
Empty
Complexity Analysis
Test Case Status
Code Editor
Search
ENG
IN
07:43
04-05-2023


SRM -TRY - ELAB
Create | Microsoft 365
Document 9.docx - Microsoft W
https://care.srmtrichy.edu.in/srmtrichyelab/#/srmtrichyelab/student/home
You have already solved this challenge ! Though you can run the code with different logic !
Course
C
Session
Input & Output
Question Information
Level 1 • Challenge 6
Problem
Problem Description:
Professor JD has lots of options. Bottles containing all types of potions are stacked on shelves which cover the entire wall from floor to ceiling.
Professor JD has broken his bones several times while climbing the top shelf for retrieving a potion. He decided to get a ladder for him.
But he has no time to visit Charu. So he instructed Bargav to make a ladder for him. Professor JD specifically wants a step ladder that looks like an inverted 'V' from a side view.
Professor just mentioned two things before vanishing-
B - separation between left side (LS) and right side (RS) on the ground
LS - the length of left side
What should be the length of RS? At one extreme LS can be vertical and at other RS can be vertical.
Bargav is angry and confused.
Can you help him find the minimum and maximum length of RS.
Constraints
1 ≤ B < LS ≤ 100
Input Format:
Only line of input contains2 integers representing B and LS respectively.
Output Format:
The only ;line of output contains minimum value of RS and maximum value of RS, separated by space.
The answer (RS) will be considered correct if it has relative and absolute error less than 10-2.
Logical Test Cases
Search
ENG
IN
07:43
04-05-2023

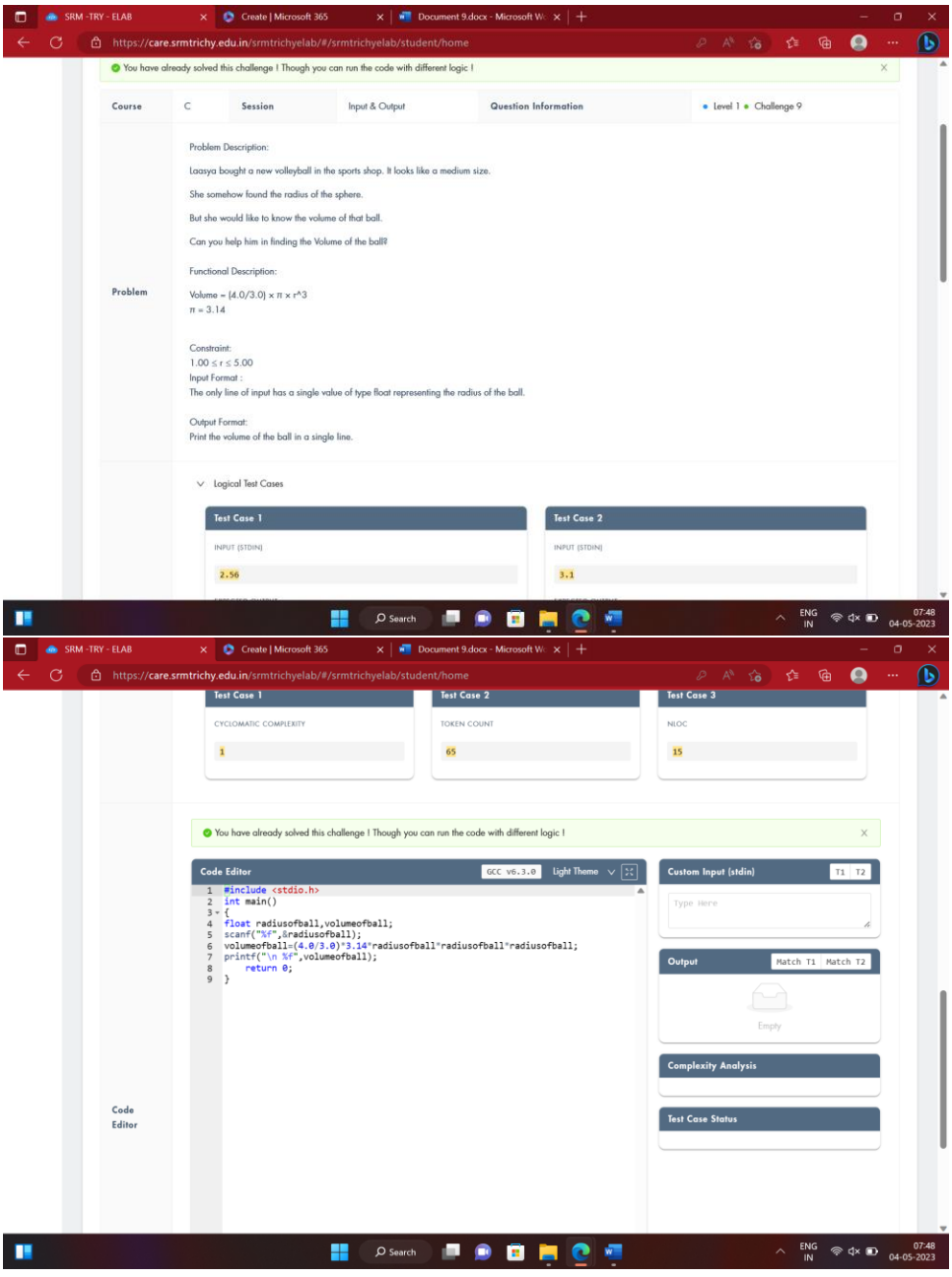
SRM -TRY - ELAB
Create | Microsoft 365
Document 9.docx - Microsoft W
https://care.srmtrichy.edu.in/srmtrichyelab/#/srmtrichyelab/student/home
CYCLOMATIC COMPLEXITY
1
TOKEN COUNT
80
NLOC
11
You have already solved this challenge ! Though you can run the code with different logic !
Code Editor
GCC v6.3.0
Light Theme
Custom Input (stdin)
T1
T2
Type Here
Output
Match T1
Match T2
Empty
Complexity Analysis
Test Case Status
Code Editor
#include <stdio.h>
#include <math.h>
int main()
{float b,ls,rs1,rs2;
scanf("%f%f",&b,&ls);
b=b*b;
ls=ls*ls;
rs1=sqrt(ls-b);
rs2=sqrt(ls+b);
printf("%.5f %.5f",rs1,rs2);
return 0;}
Search
ENG
IN
07:44
04-05-2023


SRM -TRY - ELAB
Create | Microsoft 365
Document 9.docx - Microsoft W
https://care.srmtrichy.edu.in/srmtrichyelab/#/srmtrichyelab/student/home
You have already solved this challenge ! Though you can run the code with different logic !
Course
C
Session
Input & Output
Question Information
Level 1 • Challenge 7
Problem
Problem Description:
Ramesh is working in an engineering college hostel as a Mess supervisor. There are different messes are available based on the years.
Every day students count is varying in all the hostels due to continuous holidays.
Since ramesh is in charge of the cooking team. He had trouble with calculating the quantity of food that needs to be prepared because of the varying student count.
Even if a small quantity of food is prepared by the cooking team, it should be divided equally among the number of Mess.Ramesh needs an automated software to identify the amount of food available (in number of packets) and Mess count.
Can you help him to divide the food equally and also calculating the remaining quantity of food that will be available after sharing the food equally ?
Constraints:
1≤ alvqntoffood ≤10000
1≤ messcnt ≤20
Input Format:
Only line of input has two integers (alvqntoffood, messcnt) separated by space representing the available number of food packets and the available number of messes respectively
Output Format:
In the only line of output print two values separated by a space representing the number of food packets that are equally shared by "n" number of messes and the remaining number of food packets available.
Logical Test Cases
Test Case 1
INPUT (STDIN)
Test Case 2
INPUT (STDIN)
Search
ENG
IN
07:45
04-05-2023

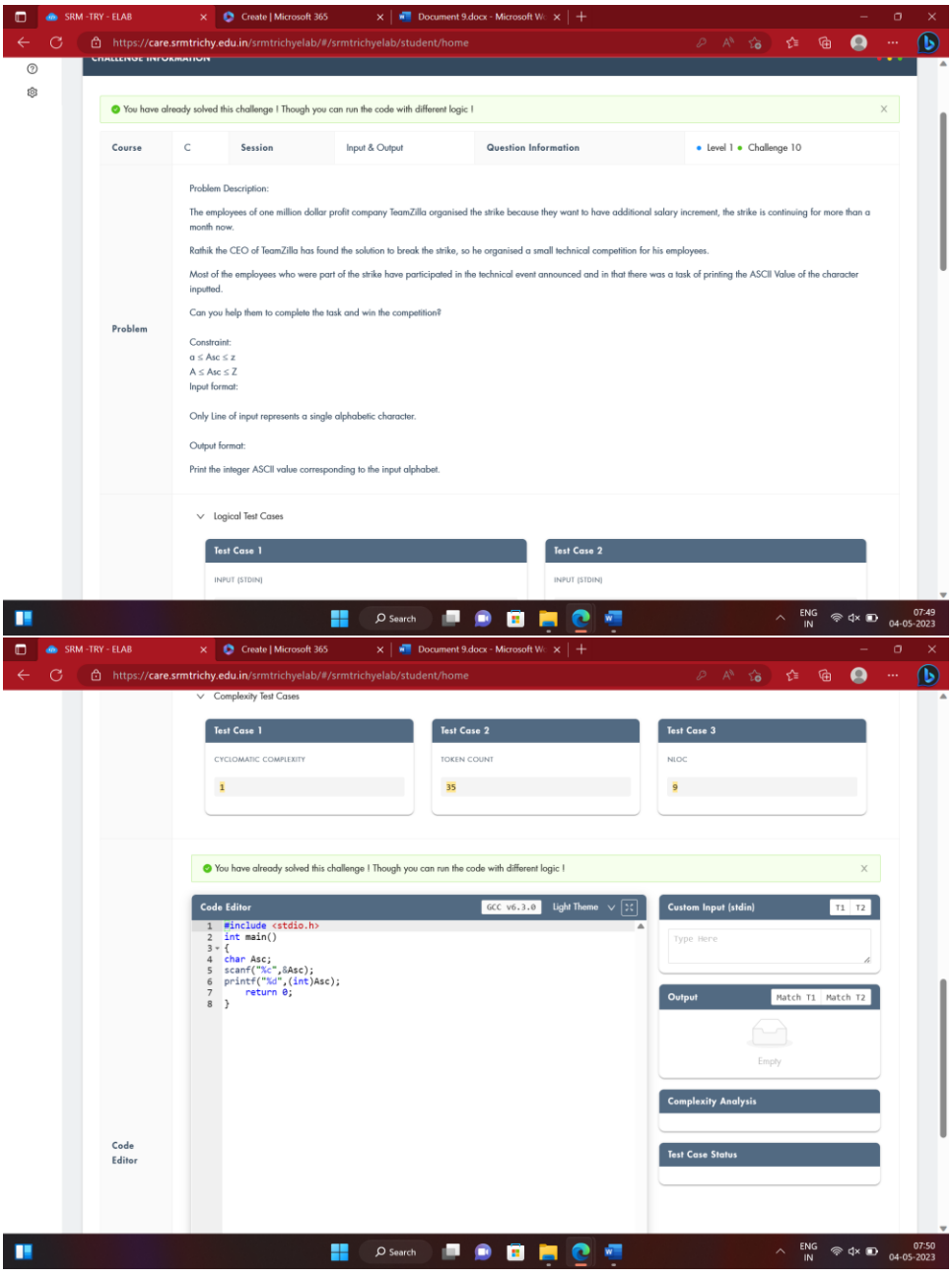

SRM -TRY - ELAB
Create | Microsoft 365
Document 9.docx - Microsoft W
https://care.srmtrichy.edu.in/srmtrichyelab/#/srmtrichyelab/student/home
Complexity Test Cases
Test Case 1
CYCLOMATIC COMPLEXITY
1
Test Case 2
TOKEN COUNT
70
Test Case 3
NLOC
13
You have already solved this challenge ! Though you can run the code with different logic !
Code Editor
GCC v6.3.0
Light Theme
#include <stdio.h>
int main()
{
int alvqntoffood,messcnt,dividedqnt,remfood;
scanf("%d\t",&alvqntoffood);
scanf("%d",&messcnt);
dividedqnt=alvqntoffood/messcnt;
remfood=alvqntoffood%messcnt;
printf("%d %d\t",dividedqnt,remfood);
return 0;
}
Custom Input (stdin)
T1
T2
Type Here
Output
Match T1
Match T2
Empty
Complexity Analysis
Test Case Status
Code Editor
Search
ENG
IN
07:45
04-05-2023

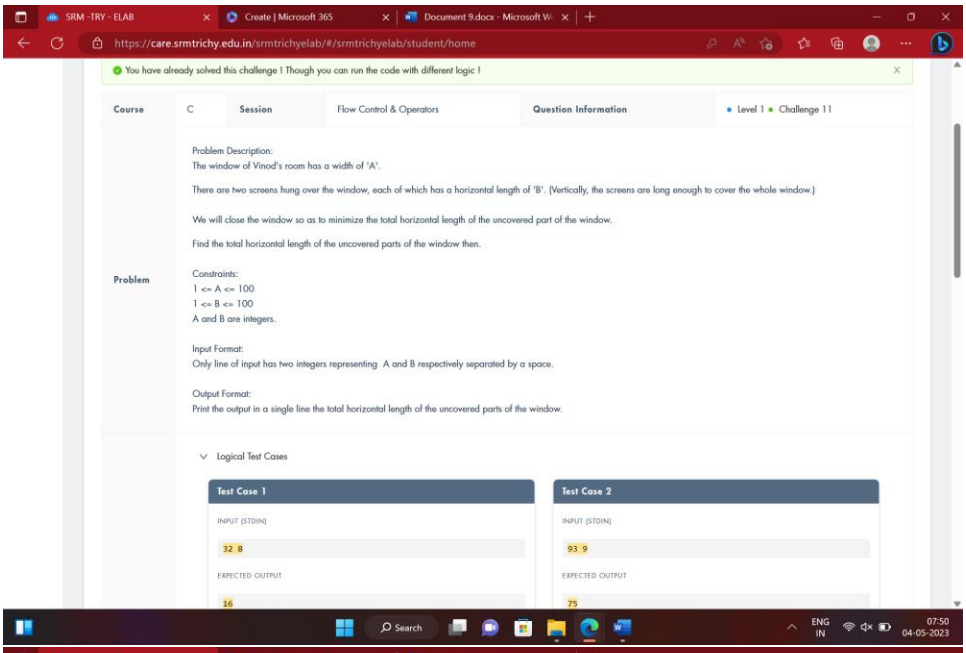

SRM -TRY - ELAB
Create | Microsoft 365
Document 9.docx - Microsoft W
https://care.srmtrichy.edu.in/srmtrichyelab/#/srmtrichyelab/student/home
CHALLENGE INFORMATION
You have already solved this challenge ! Though you can run the code with different logic !
Course
C
Session
Input & Output
Question Information
Level 1 • Challenge 8
Problem
Problem Description:
Rathik organized technical round interview in Macrosoft for the set of computer science candidates.
The problem is to perform addition, subtraction, multiplication, and division of given two numbers.
Rathik have given the deadline of only 5 minutes to complete the problem.
Can you Help the candidates to complete the problem within the specified time limit ?
Constraint:
1 ≤ testnum1 ≤ 50
1 ≤ testnum2 ≤ 50
Input Format :
The only line of input has two numbers a and b of type integers separated by a comma.
Output Format:
Print Addition, Subtraction, Multiplication, Division, and Modulus of given two numbers in a separate line respectively.
Note: Rathik instructed his candidates to print the result of the division with 3 values after decimal point.
Logical Test Cases
Test Case 1
Test Case 2
Search
ENG
IN
07:47
04-05-2023

SRM -TRY - ELAB
Create | Microsoft 365
Document 9.docx - Microsoft W
https://care.srmtrichy.edu.in/srmtrichyelab/#/srmtrichyelab/student/home
1
130
21
You have already solved this challenge ! Though you can run the code with different logic !
Code Editor
GCC v6.3.0
Light Theme
Custom Input (stdin)
T1
T2
Type Here
Output
Match T1
Match T2
Empty
Complexity Analysis
Test Case Status
Code Editor
#include <stdio.h>
#include <math.h>
int main()
{
int testnum1,testnum2;
int sum,sub,mult,mod;
float div;
scanf("%d",&testnum1);
scanf("%d",&testnum2);
sum=testnum1+testnum2;
sub=testnum1-testnum2;
div=(float)testnum1/(float)testnum2;
mult=testnum1*testnum2;
mod=testnum1%testnum2;
printf("Addition : %d",sum);
printf("\nSubtraction : %d",sub);
printf("\nMultiplication : %d",mult);
printf("\nDivision : %0.3f",div);
printf("\nModulus : %d",mod);
return 0;
}
Reset
Run
Search
ENG
IN
07:47
04-05-2023


SRM -TRY - ELAB
Create | Microsoft 365
Document 9.docx - Microsoft W
https://care.srmtrichy.edu.in/srmtrichyelab/#/srmtrichyelab/student/home
You have already solved this challenge ! Though you can run the code with different logic !
Course
C
Session
Input & Output
Question Information
Level 1 • Challenge 9
Problem
Problem Description:
Laasya bought a new volleyball in the sports shop. It looks like a medium size.
She somehow found the radius of the sphere.
But she would like to know the volume of that ball.
Can you help him in finding the Volume of the ball?
Functional Description:
Volume = (4.0/3.0) × π × r^3
π = 3.14
Constraint:
1.00 ≤ r ≤ 5.00
Input Format :
The only line of input has a single value of type float representing the radius of the ball.
Output Format:
Print the volume of the ball in a single line.
Logical Test Cases
Test Case 1
INPUT (STDIN)
2.56
Test Case 2
INPUT (STDIN)
3.1
Search
ENG
IN
07:48
04-05-2023

SRM -TRY - ELAB
Create | Microsoft 365
Document 9.docx - Microsoft W
https://care.srmtrichy.edu.in/srmtrichyelab/#/srmtrichyelab/student/home
Test Case 1
CYCLOMATIC COMPLEXITY
1
Test Case 2
TOKEN COUNT
65
Test Case 3
NLOC
15
You have already solved this challenge ! Though you can run the code with different logic !
Code Editor
GCC v6.3.0
Light Theme
1 #include <stdio.h>
2 int main()
3 {
4 float radiusofball,volumeofball;
5 scanf("%f",&radiusofball);
6 volumeofball=(4.0/3.0)*3.14*radiusofball*radiusofball*radiusofball;
7 printf("\n %f",volumeofball);
8 return 0;
9 }
Custom Input (stdin)
T1
T2
Type Here
Output
Match T1
Match T2
Empty
Complexity Analysis
Test Case Status
Code Editor
Search
ENG
IN
07:48
04-05-2023


SRM -TRY - ELAB
Create | Microsoft 365
Document 9.docx - Microsoft W
https://care.srmtrichy.edu.in/srmtrichyelab/#/srmtrichyelab/student/home
You have already solved this challenge ! Though you can run the code with different logic !
Course
C
Session
Input & Output
Question Information
Level 1 • Challenge 10
Problem
Problem Description:
The employees of one million dollar profit company TeamZilla organised the strike because they want to have additional salary increment, the strike is continuing for more than a month now.
Rathik the CEO of TeamZilla has found the solution to break the strike, so he organised a small technical competition for his employees.
Most of the employees who were part of the strike have participated in the technical event announced and in that there was a task of printing the ASCII Value of the character inputted.
Can you help them to complete the task and win the competition?
Constraint:
a ≤ Asc ≤ z
A ≤ Asc ≤ Z
Input format:
Only Line of input represents a single alphabetic character.
Output format:
Print the integer ASCII value corresponding to the input alphabet.
Logical Test Cases
Test Case 1
INPUT (STDIN)
Test Case 2
INPUT (STDIN)
Search
ENG
IN
07:49
04-05-2023
SRM -TRY - ELAB
Create | Microsoft 365
Document 9.docx - Microsoft W
https://care.srmtrichy.edu.in/srmtrichyelab/#/srmtrichyelab/student/home
Complexity Test Cases
Test Case 1
CYCLOMATIC COMPLEXITY
1
Test Case 2
TOKEN COUNT
35
Test Case 3
NLOC
9
You have already solved this challenge ! Though you can run the code with different logic !
Code Editor
GCC v6.3.0
Light Theme
#include <stdio.h>
int main()
{
char Asc;
scanf("%c",&Asc);
printf("%d",(int)Asc);
return 0;
}
Custom Input (stdin)
T1
T2
Type Here
Output
Match T1
Match T2
Empty
Complexity Analysis
Test Case Status
Code Editor
Search
ENG
IN
07:50
04-05-2023


SRM -TRY - ELAB
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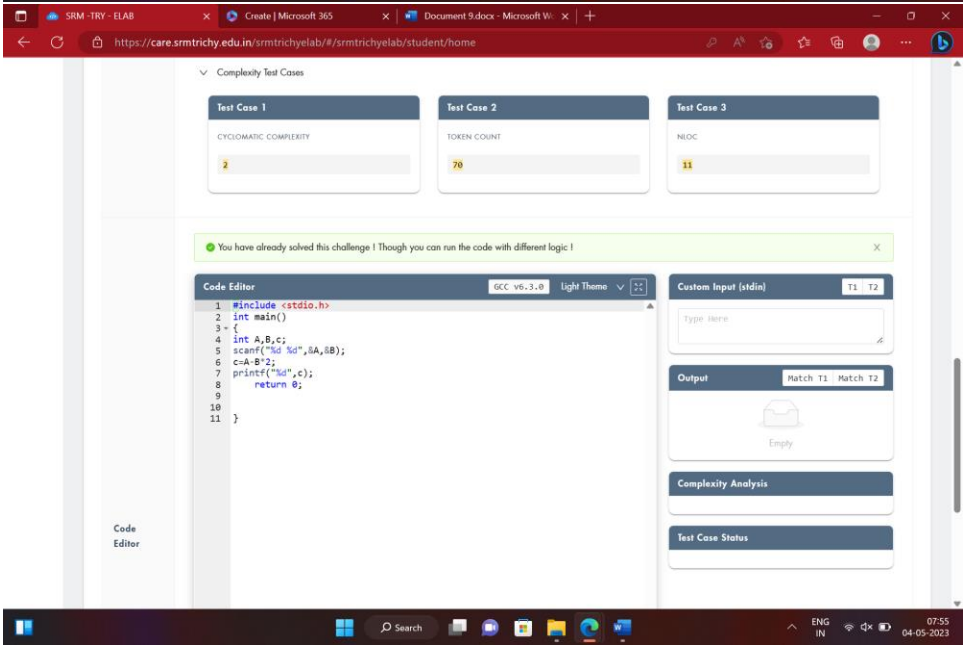
You have already solved this challenge ! Though you can run the code with different logic !
Course
C
Session
Flow Control & Operators
Question Information
Level 1 • Challenge 11
Problem
Problem Description:
The window of Vinod's room has a width of 'A'.
There are two screens hung over the window, each of which has a horizontal length of 'B'. (Vertically, the screens are long enough to cover the whole window.)
We will close the window so as to minimize the total horizontal length of the uncovered part of the window.
Find the total horizontal length of the uncovered parts of the window then.
Constraints:
1 <= A <= 100
1 <= B <= 100
A and B are integers.
Input Format:
Only line of input has two integers representing A and B respectively separated by a space.
Output Format:
Print the output in a single line the total horizontal length of the uncovered parts of the window.
Logical Test Cases
Test Case 1
INPUT (STDIN)
32 8
EXPECTED OUTPUT
16
Test Case 2
INPUT (STDIN)
93 9
EXPECTED OUTPUT
75
Search
ENG
IN
07:50
04-05-2023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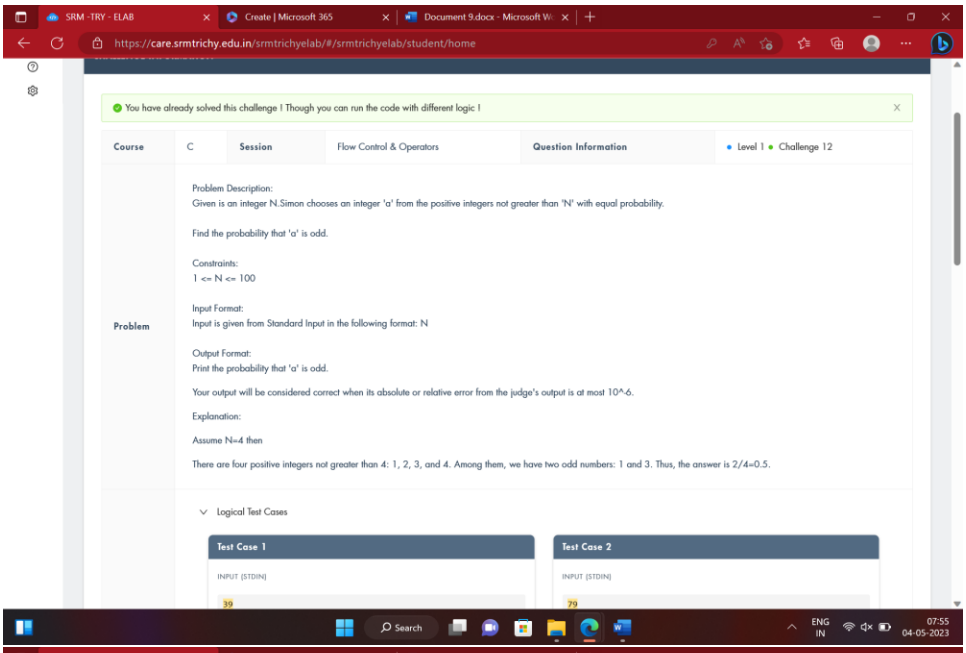
Document 9.docx - Microsoft W
https://care.srmtrichy.edu.in/srmtrichyelab/#/srmtrichyelab/student/home
Complexity Test Cases
Test Case 1
CYCLOMATIC COMPLEXITY
2
Test Case 2
TOKEN COUNT
70
Test Case 3
NLOC
11
You have already solved this challenge ! Though you can run the code with different logic !
Code Editor
GCC v6.3.0
Light Theme
1 #include <stdio.h>
2 int main()
3 {
4 int A,B,c;
5 scanf("%d %d",&A,&B);
6 c=A-B*2;
7 printf("%d",c);
8 return 0;
9
10
11 }
Custom Input (stdin)
T1 T2
Type Here
Output
Match T1 Match T2
Empty
Complexity Analysis
Test Case Status
Code Editor
Search
ENG
IN
07:55
04-05-2023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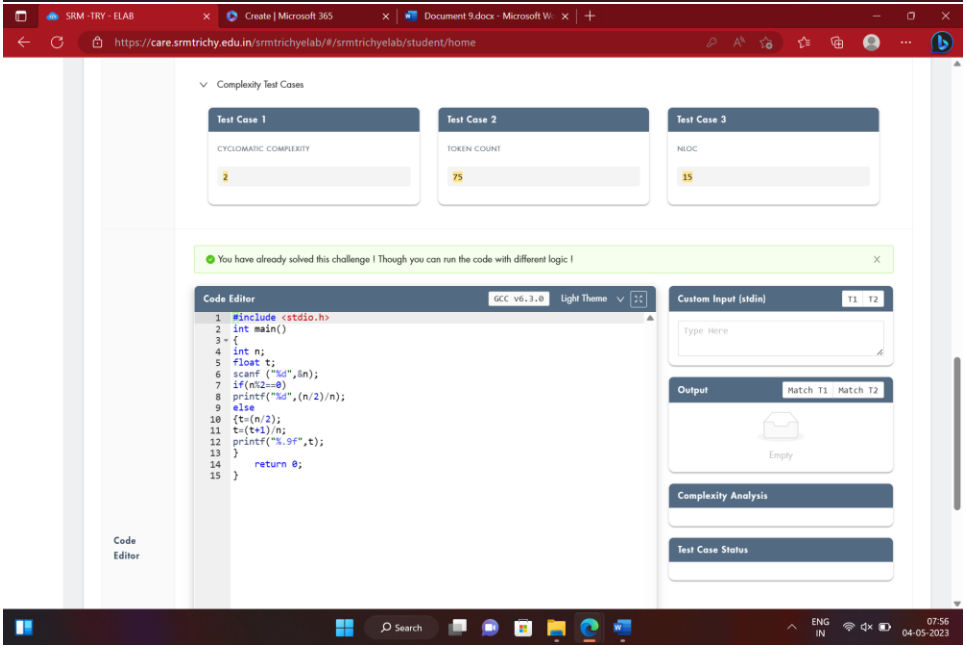
Document 9.docx - Microsoft W
https://care.srmtrichy.edu.in/srmtrichyelab/#/srmtrichyelab/student/home
You have already solved this challenge ! Though you can run the code with different logic !
Course
C
Session
Flow Control & Operators
Question Information
Level 1 • Challenge 12
Problem
Problem Description:
Given is an integer N.Simon chooses an integer 'a' from the positive integers not greater than 'N' with equal probability.
Find the probability that 'a' is odd.
Constraints:
1 <= N <= 100
Input Format:
Input is given from Standard Input in the following format: N
Output Format:
Print the probability that 'a' is odd.
Your output will be considered correct when its absolute or relative error from the judge's output is at most 10^-6.
Explanation:
Assume N=4 then
There are four positive integers not greater than 4: 1, 2, 3, and 4. Among them, we have two odd numbers: 1 and 3. Thus, the answer is 2/4=0.5.
Logical Test Cases
Test Case 1
INPUT (STDIN)
39
Test Case 2
INPUT (STDIN)
79
Search
ENG
IN
07:55
04-05-2023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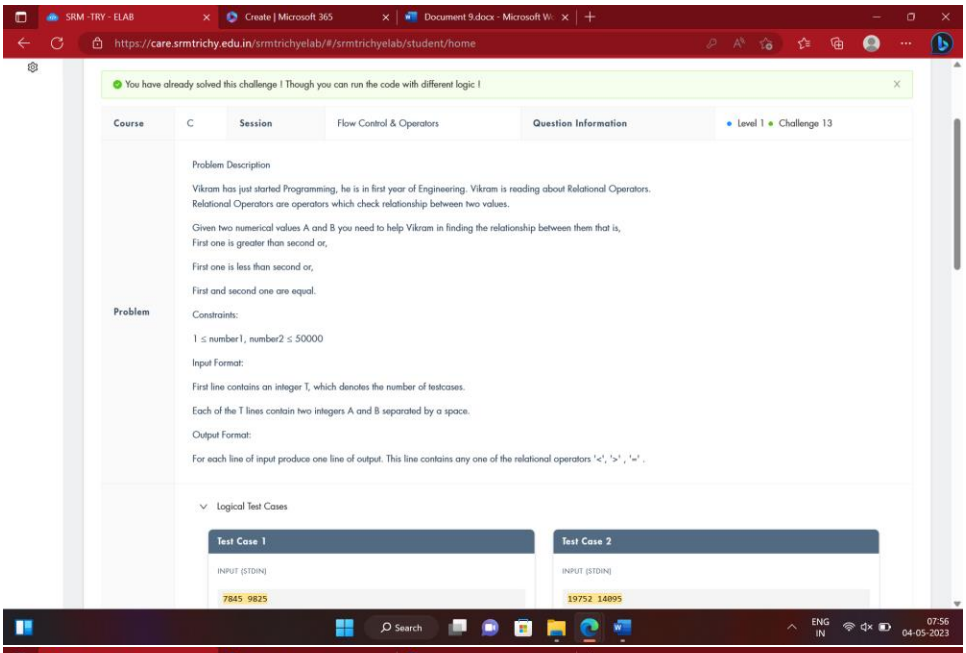
Document 9.docx - Microsoft W
https://care.srmtrichy.edu.in/srmtrichyelab/#/srmtrichyelab/student/home
Complexity Test Cases
Test Case 1
CYCLOMATIC COMPLEXITY
2
Test Case 2
TOKEN COUNT
75
Test Case 3
NLOC
15
You have already solved this challenge ! Though you can run the code with different logic !
Code Editor
GCC v6.3.0
Light Theme
#include <stdio.h>
int main()
{
int n;
float t;
scanf ("%d",&n);
if(n%2==0)
printf("%d",(n/2)/n);
else
{t=(n/2);
t=(t+1)/n;
printf("%.9f",t);
}
return 0;
}
Custom Input (stdin)
T1
T2
Type Here
Output
Match T1
Match T2
Empty
Complexity Analysis
Test Case Status
Code Editor
Search
ENG
IN
07:56
04-05-2023


SRM -TRY - ELAB
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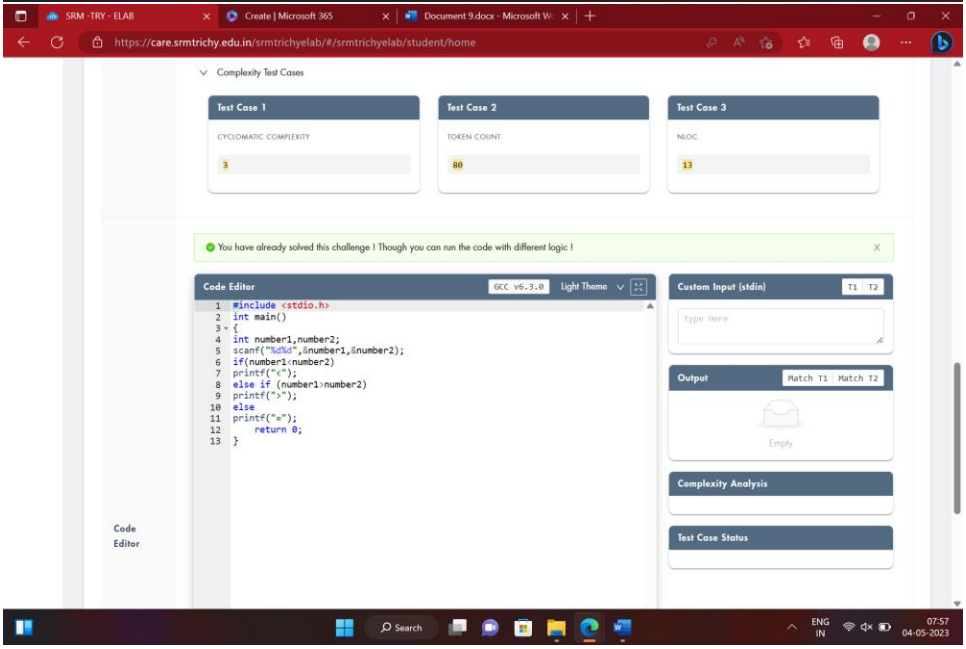
Document 9.docx - Microsoft W
https://care.srmtrichy.edu.in/srmtrichyelab/#/srmtrichyelab/student/home
You have already solved this challenge ! Though you can run the code with different logic !
Course
C
Session
Flow Control & Operators
Question Information
Level 1 Challenge 13
Problem
Problem Description
Vikram has just started Programming, he is in first year of Engineering. Vikram is reading about Relational Operators.
Relational Operators are operators which check relationship between two values.
Given two numerical values A and B you need to help Vikram in finding the relationship between them that is,
First one is greater than second or,
First one is less than second or,
First and second one are equal.
Constraints:
1 ≤ number1, number2 ≤ 50000
Input Format:
First line contains an integer T, which denotes the number of testcases.
Each of the T lines contain two integers A and B separated by a space.
Output Format:
For each line of input produce one line of output. This line contains any one of the relational operators '<', '>' , '=' .
Logical Test Cases
Test Case 1
INPUT (STDIN)
7845 9825
Test Case 2
INPUT (STDIN)
19752 14095
Search
ENG
IN
07:56
04-05-2023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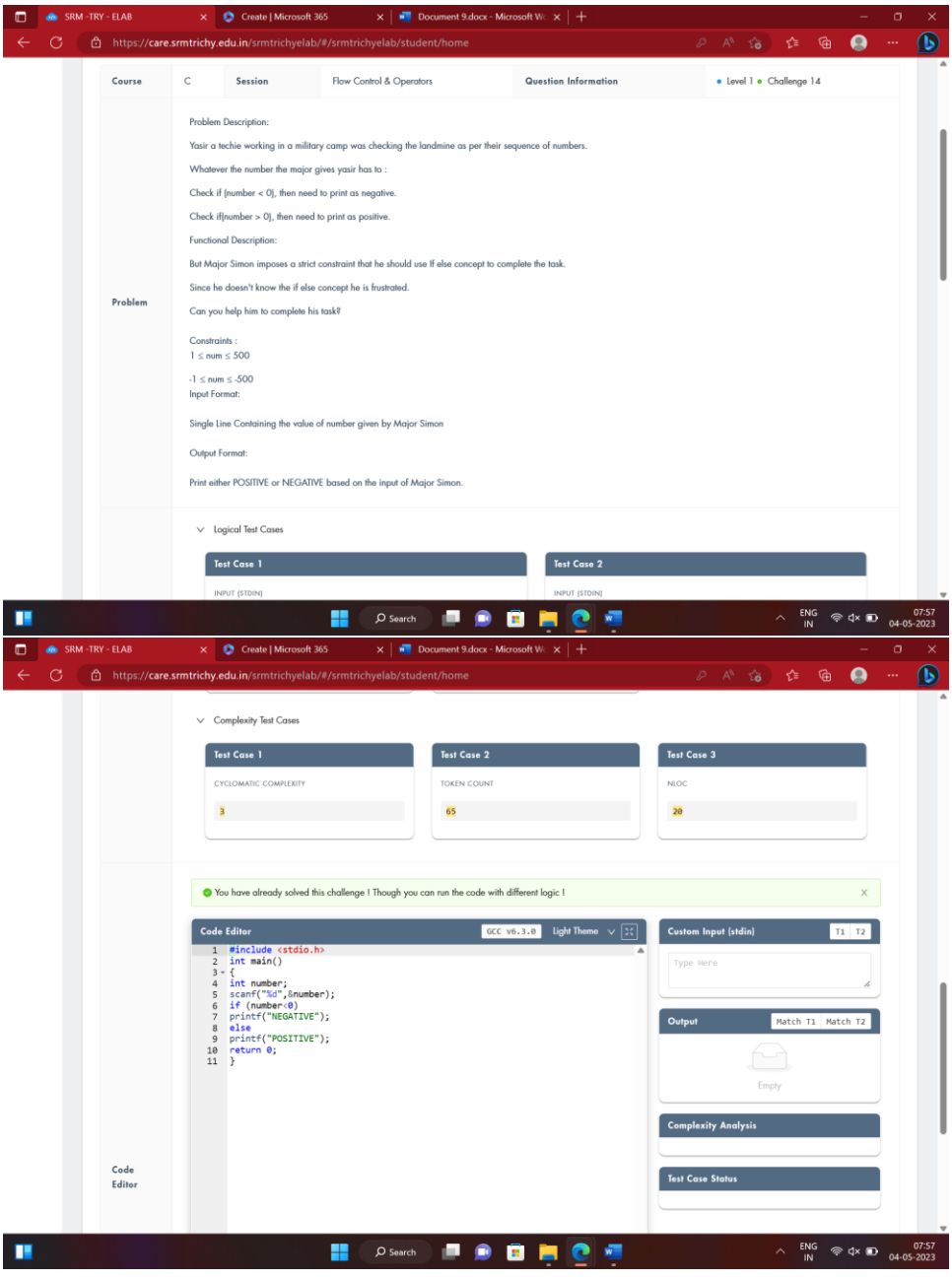
Document 9.docx - Microsoft W
https://care.srmtrichy.edu.in/srmtrichyelab/#/srmtrichyelab/student/home
Complexity Test Cases
Test Case 1
CYCLOMATIC COMPLEXITY
3
Test Case 2
TOKEN COUNT
80
Test Case 3
NLOC
13
You have already solved this challenge ! Though you can run the code with different logic !
Code Editor
GCC v6.3.0
Light Theme
1 #include <stdio.h>
2 int main()
3 {
4 int number1,number2;
5 scanf("%d%d",&number1,&number2);
6 if(number1<number2)
7 printf("<");
8 else if (number1>number2)
9 printf(">");
10 else
11 printf("=");
12 return 0;
13 }
Custom Input (stdin)
T1 T2
Type Here
Output
Match T1 Match T2
Empty
Complexity Analysis
Test Case Status
Code Editor
Search
ENG
IN
07:57
04-05-2023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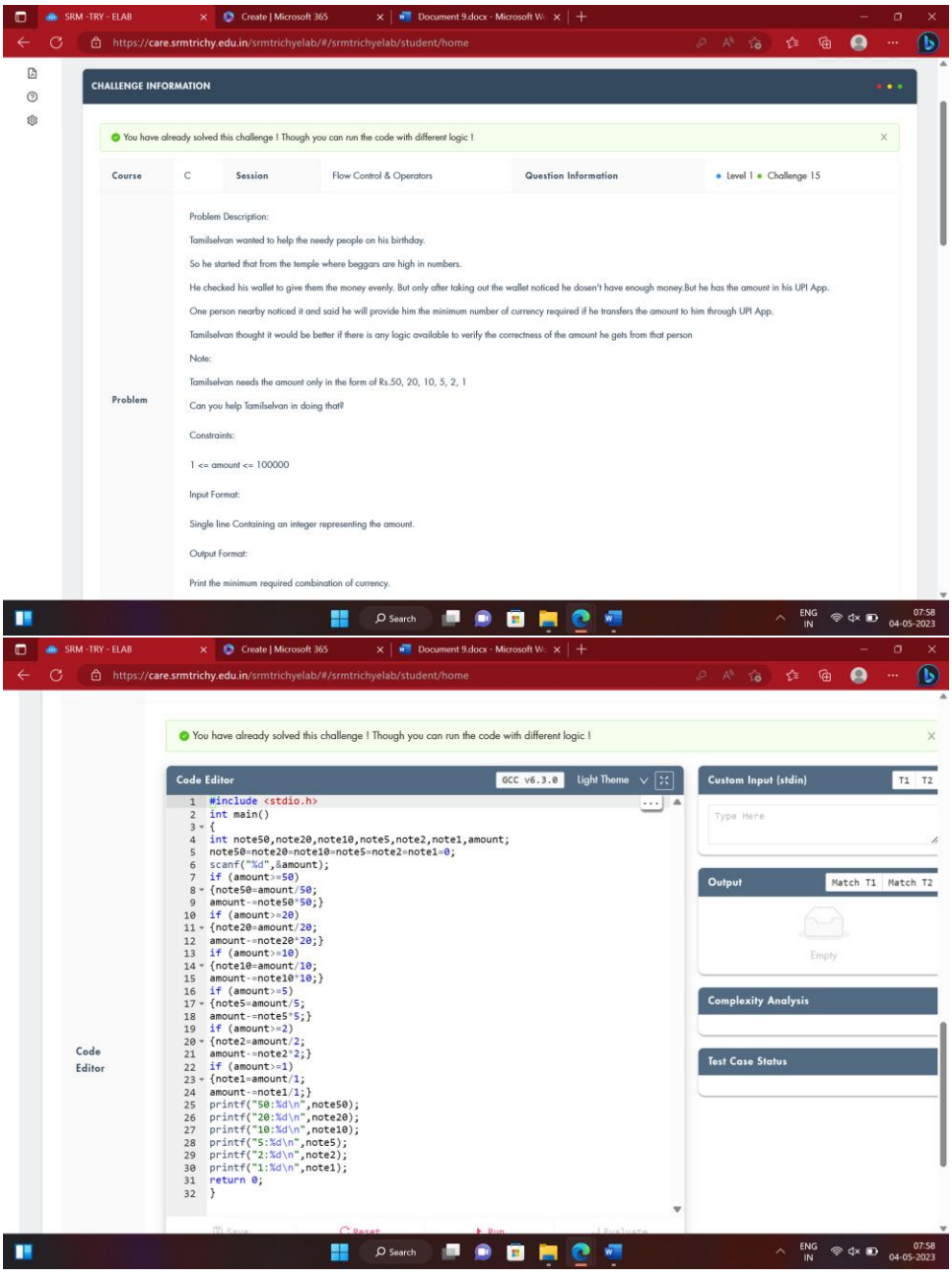
Document 9.docx - Microsoft W
https://care.srmtrichy.edu.in/srmtrichyelab/#/srmtrichyelab/student/home
Course
C
Session
Flow Control & Operators
Question Information
Level 1
Challenge 14
Problem
Problem Description:
Yasir a techie working in a military camp was checking the landmine as per their sequence of numbers.
Whatever the number the major gives yasir has to :
Check if (number < 0), then need to print as negative.
Check if(number > 0), then need to print as positive.
Functional Description:
But Major Simon imposes a strict constraint that he should use If else concept to complete the task.
Since he doesn't know the if else concept he is frustrated.
Can you help him to complete his task?
Constraints :
1 ≤ num ≤ 500
-1 ≤ num ≤ -500
Input Format:
Single Line Containing the value of number given by Major Simon
Output Format:
Print either POSITIVE or NEGATIVE based on the input of Major Simon.
Logical Test Cases
Test Case 1
INPUT (STDIN)
Test Case 2
INPUT (STDIN)
Search
ENG
IN
07:57
04-05-2023
Complexity Test Cases
Test Case 1
CYCLOMATIC COMPLEXITY
3
Test Case 2
TOKEN COUNT
65
Test Case 3
NLOC
20
You have already solved this challenge ! Though you can run the code with different logic !
Code Editor
GCC v6.3.0
Light Theme
1 #include <stdio.h>
2 int main()
3 {
4 int number;
5 scanf("%d",&number);
6 if (number<0)
7 printf("NEGATIVE");
8 else
9 printf("POSITIVE");
10 return 0;
11 }
Custom Input (stdin)
T1
T2
Type Here
Output
Match T1
Match T2
Empty
Complexity Analysis
Test Case Status
Code Editor
Search
ENG
IN
07:57
04-05-2023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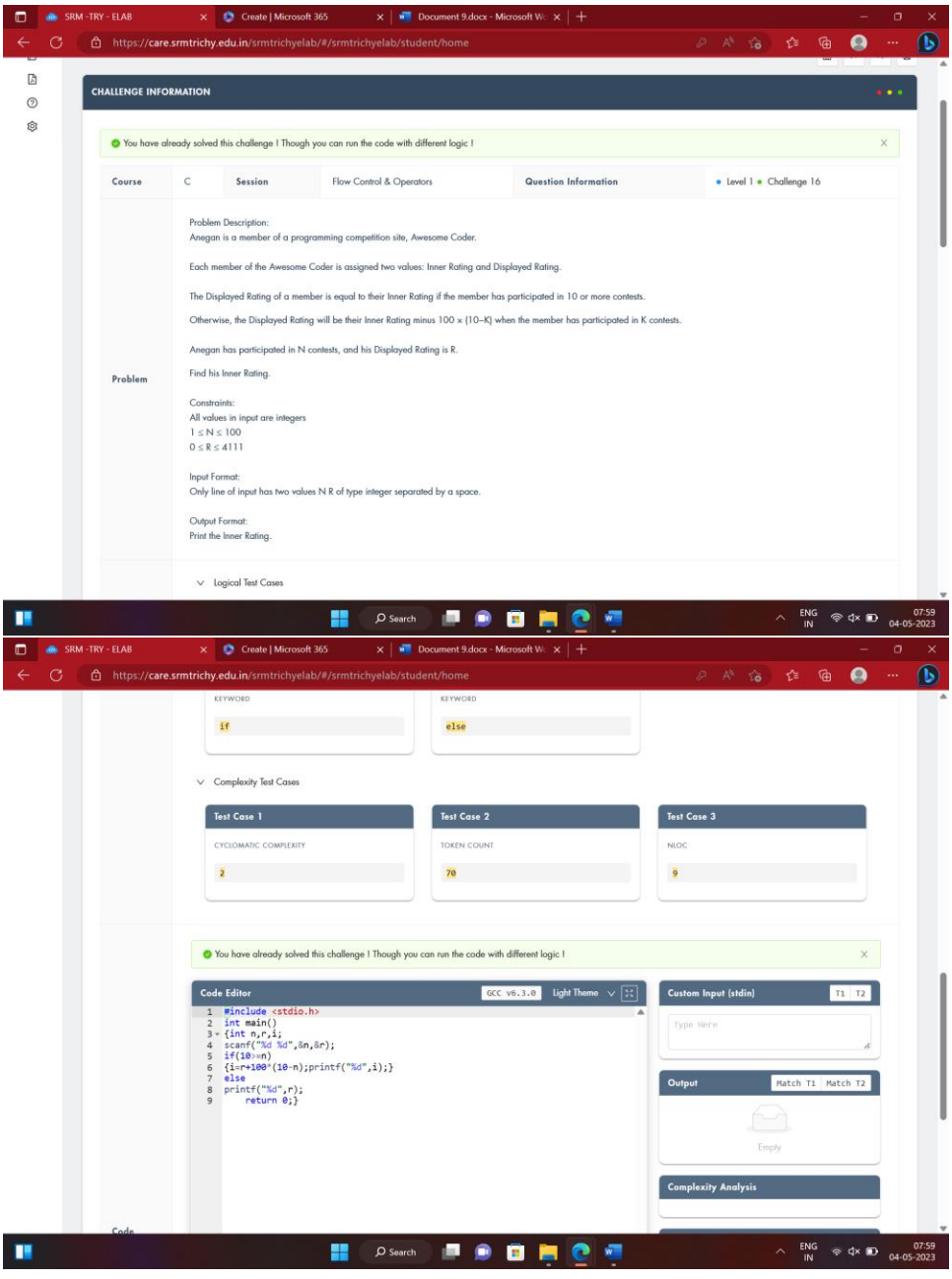
CHALLENGE INFORMATION
You have already solved this challenge ! Though you can run the code with different logic !
Course
C
Session
Flow Control & Operators
Question Information
Level 1 • Challenge 15
Problem
Problem Description:
Tamilselvan wanted to help the needy people on his birthday.
So he started that from the temple where beggars are high in numbers.
He checked his wallet to give them the money evenly. But only after taking out the wallet noticed he dosen't have enough money.But he has the amount in his UPI App.
One person nearby noticed it and said he will provide him the minimum number of currency required if he transfers the amount to him through UPI App.
Tamilselvan thought it would be better if there is any logic available to verify the correctness of the amount he gets from that person
Note:
Tamilselvan needs the amount only in the form of Rs.50, 20, 10, 5, 2, 1
Can you help Tamilselvan in doing that?
Constraints:
1 <= amount <= 100000
Input Format:
Single line Containing an integer representing the amount.
Output Format:
Print the minimum required combination of currency.
Search
ENG
IN
07:58
04-05-2023

SRM -TRY - ELAB
Create | Microsoft 365
Document 9.docx - Microsoft W
https://care.srmtrichy.edu.in/srmtrichyelab/#/srmtrichyelab/student/home
You have already solved this challenge ! Though you can run the code with different logic !
Code Editor
GCC v6.3.0
Light Theme
Custom Input (stdin)
T1
T2
Type Here
Output
Match T1
Match T2
Empty
Complexity Analysis
Test Case Status
Code Editor
#include <stdio.h>
int main()
{
int note50,note20,note10,note5,note2,note1,amount;
note50=note20=note10=note5=note2=note1=0;
scanf("%d",&amount);
if (amount>=50)
{note50=amount/50;
amount-=note50*50;}
if (amount>=20)
{note20=amount/20;
amount-=note20*20;}
if (amount>=10)
{note10=amount/10;
amount-=note10*10;}
if (amount>=5)
{note5=amount/5;
amount-=note5*5;}
if (amount>=2)
{note2=amount/2;
amount-=note2*2;}
if (amount>=1)
{note1=amount/1;
amount-=note1/1;}
printf("50:%d\n",note50);
printf("20:%d\n",note20);
printf("10:%d\n",note10);
printf("5:%d\n",note5);
printf("2:%d\n",note2);
printf("1:%d\n",note1);
return 0;
}
Search
ENG
IN
07:58
04-05-2023


SRM -TRY - ELAB
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Document 9.docx - Microsoft W
https://care.srmtrichy.edu.in/srmtrichyelab/#/srmtrichyelab/student/home
CHALLENGE INFORMATION
You have already solved this challenge ! Though you can run the code with different logic !
Course
C
Session
Flow Control & Operators
Question Information
Level 1 • Challenge 16
Problem
Problem Description:
Anegan is a member of a programming competition site, Awesome Coder.
Each member of the Awesome Coder is assigned two values: Inner Rating and Displayed Rating.
The Displayed Rating of a member is equal to their Inner Rating if the member has participated in 10 or more contests.
Otherwise, the Displayed Rating will be their Inner Rating minus 100 × (10−K) when the member has participated in K contests.
Anegan has participated in N contests, and his Displayed Rating is R.
Find his Inner Rating.
Constraints:
All values in input are integers
1 ≤ N ≤ 100
0 ≤ R ≤ 4111
Input Format:
Only line of input has two values N R of type integer separated by a space.
Output Format:
Print the Inner Rating.
Logical Test Cases
Search
ENG
IN
07:59
04-05-2023

SRM -TRY - ELAB
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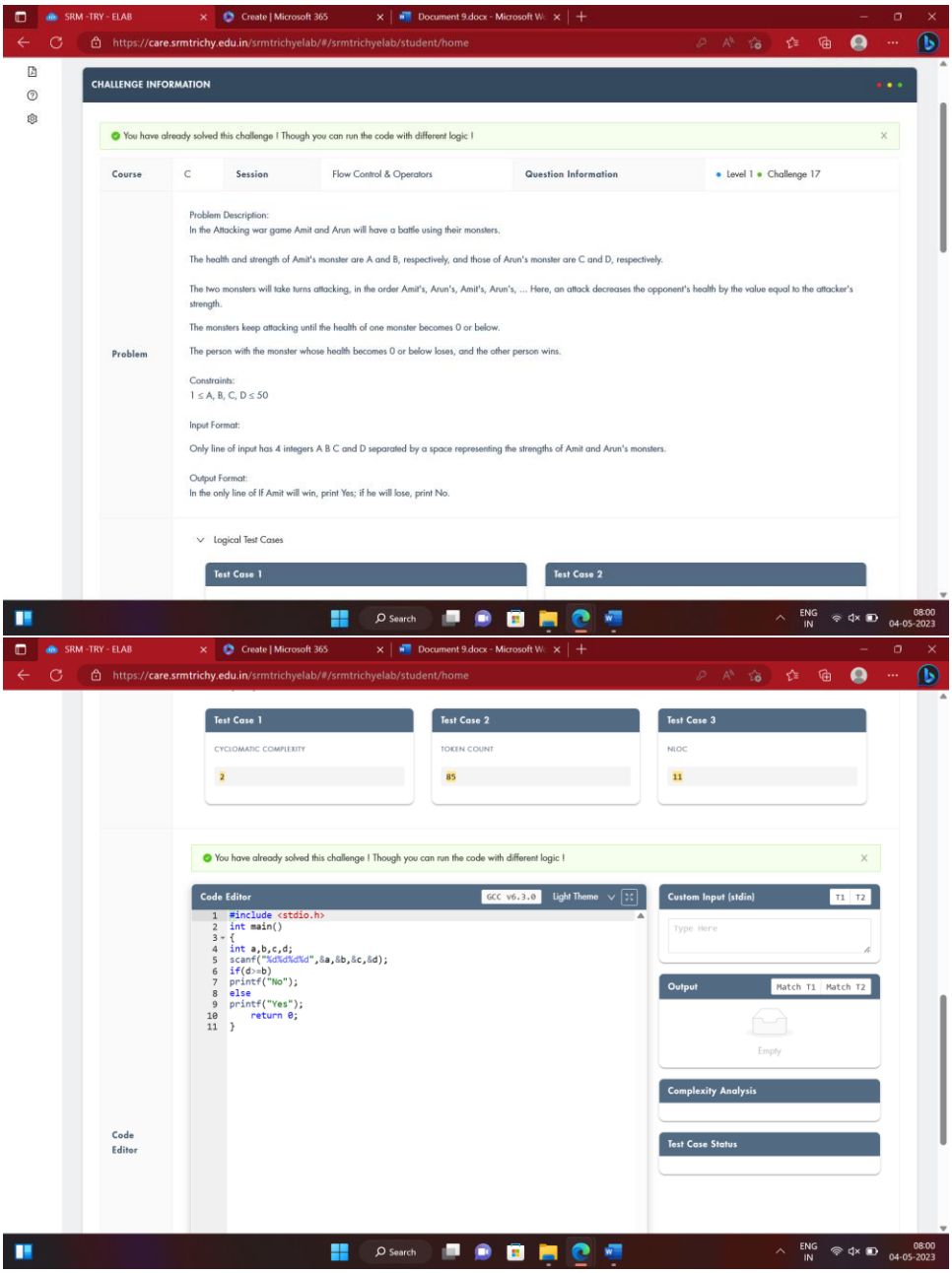
Document 9.docx - Microsoft W
https://care.srmtrichy.edu.in/srmtrichyelab/#/srmtrichyelab/student/home
KEYWORD
if
KEYWORD
else
Complexity Test Cases
Test Case 1
CYCLOMATIC COMPLEXITY
2
Test Case 2
TOKEN COUNT
70
Test Case 3
NLOC
9
You have already solved this challenge ! Though you can run the code with different logic !
Code Editor
GCC v6.3.0
Light Theme
#include <stdio.h>
int main()
{int n,r,i;
scanf("%d %d",&n,&r);
if(10>=n)
{i=r+100*(10-n);printf("%d",i);}
else
printf("%d",r);
return 0;}
Custom Input (stdin)
T1
T2
Type Here
Output
Match T1
Match T2
Empty
Complexity Analysis
Search
ENG
IN
07:59
04-05-2023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Document 9.docx - Microsoft W
https://care.srmtrichy.edu.in/srmtrichyelab/#/srmtrichyelab/student/home
CHALLENGE INFORMATION
You have already solved this challenge ! Though you can run the code with different logic !
Course
C
Session
Flow Control & Operators
Question Information
Level 1 • Challenge 17
Problem
Problem Description:
In the Attacking war game Amit and Arun will have a battle using their monsters.
The health and strength of Amit's monster are A and B, respectively, and those of Arun's monster are C and D, respectively.
The two monsters will take turns attacking, in the order Amit's, Arun's, Amit's, Arun's, ... Here, an attack decreases the opponent's health by the value equal to the attacker's strength.
The monsters keep attacking until the health of one monster becomes 0 or below.
The person with the monster whose health becomes 0 or below loses, and the other person wins.
Constraints:
1 ≤ A, B, C, D ≤ 50
Input Format:
Only line of input has 4 integers A B C and D separated by a space representing the strengths of Amit and Arun's monsters.
Output Format:
In the only line of If Amit will win, print Yes; if he will lose, print No.
Logical Test Cases
Test Case 1
Test Case 2
Search
ENG
IN
08:00
04-05-2023
SRM -TRY - ELAB
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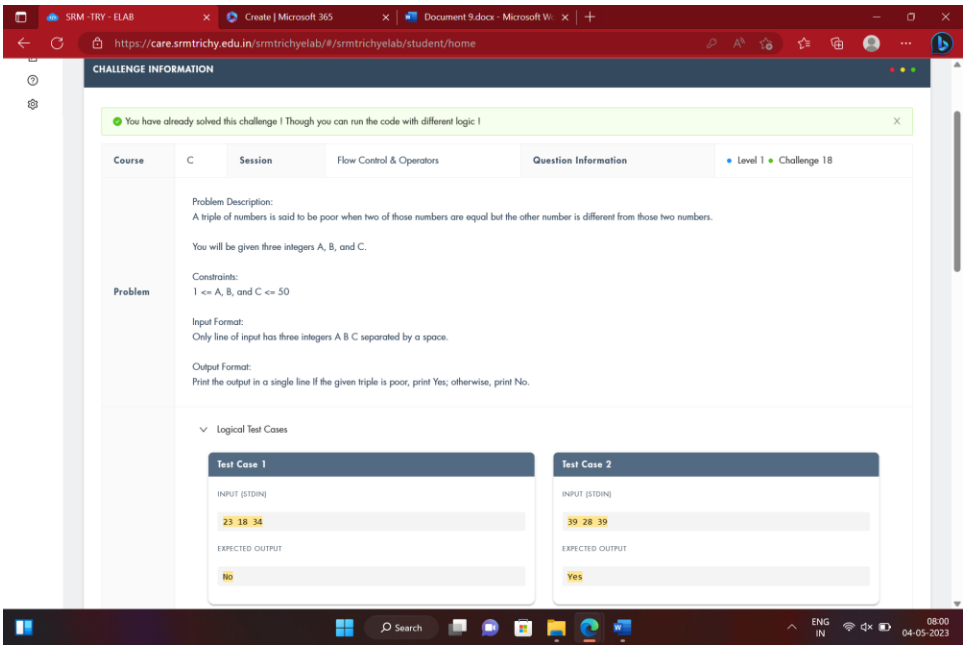
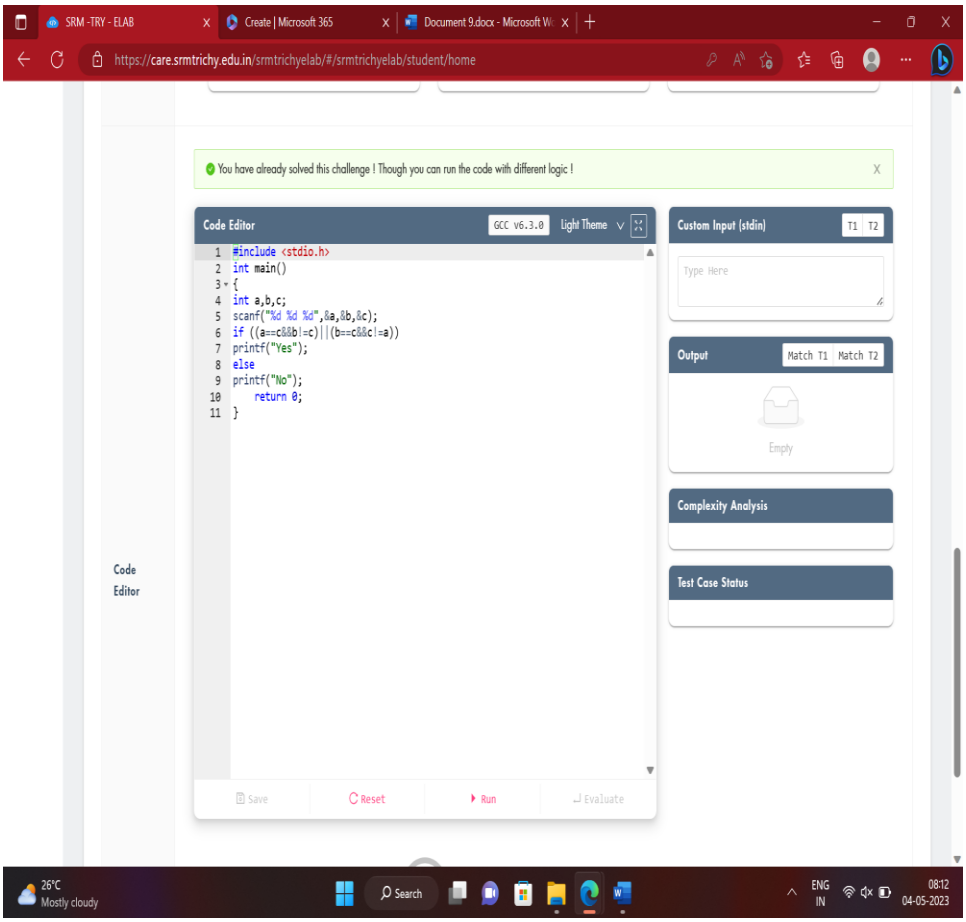
Document 9.docx - Microsoft W
https://care.srmtrichy.edu.in/srmtrichyelab/#/srmtrichyelab/student/home
Test Case 1
CYCLOMATIC COMPLEXITY
2
Test Case 2
TOKEN COUNT
85
Test Case 3
NLOC
11
You have already solved this challenge ! Though you can run the code with different logic !
Code Editor
GCC v6.3.0
Light Theme
1 #include <stdio.h>
2 int main()
3 {
4 int a,b,c,d;
5 scanf("%d%d%d%d",&a,&b,&c,&d);
6 if(d<=b)
7 printf("No");
8 else
9 printf("Yes");
10 return 0;
11 }
Custom Input (stdin)
T1
T2
Type Here
Output
Match T1
Match T2
Empty
Complexity Analysis
Test Case Status
Code Editor
Search
ENG
IN
08:00
04-05-2023


SRM -TRY - ELAB
Create | Microsoft 365
Document 9.docx - Microsoft W
https://care.srmtrichy.edu.in/srmtrichyelab/#/srmtrichyelab/student/home
CHALLENGE INFORMATION
You have already solved this challenge ! Though you can run the code with different logic !
Course
C
Session
Flow Control & Operators
Question Information
Level 1 • Challenge 18
Problem
Problem Description:
A triple of numbers is said to be poor when two of those numbers are equal but the other number is different from those two numbers.
You will be given three integers A, B, and C.
Constraints:
1 <= A, B, and C <= 50
Input Format:
Only line of input has three integers A B C separated by a space.
Output Format:
Print the output in a single line If the given triple is poor, print Yes; otherwise, print No.
Logical Test Cases
Test Case 1
INPUT (STDIN)
23 18 34
EXPECTED OUTPUT
No
Test Case 2
INPUT (STDIN)
39 28 39
EXPECTED OUTPUT
Yes
Search
ENG
IN
08:00
04-05-2023


SRM -TRY - ELAB
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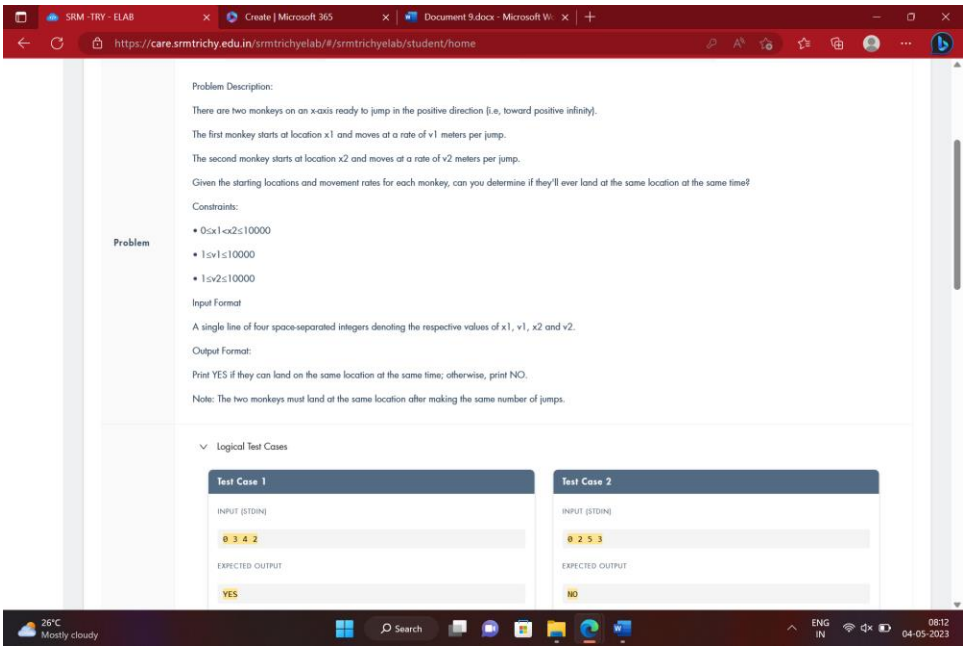
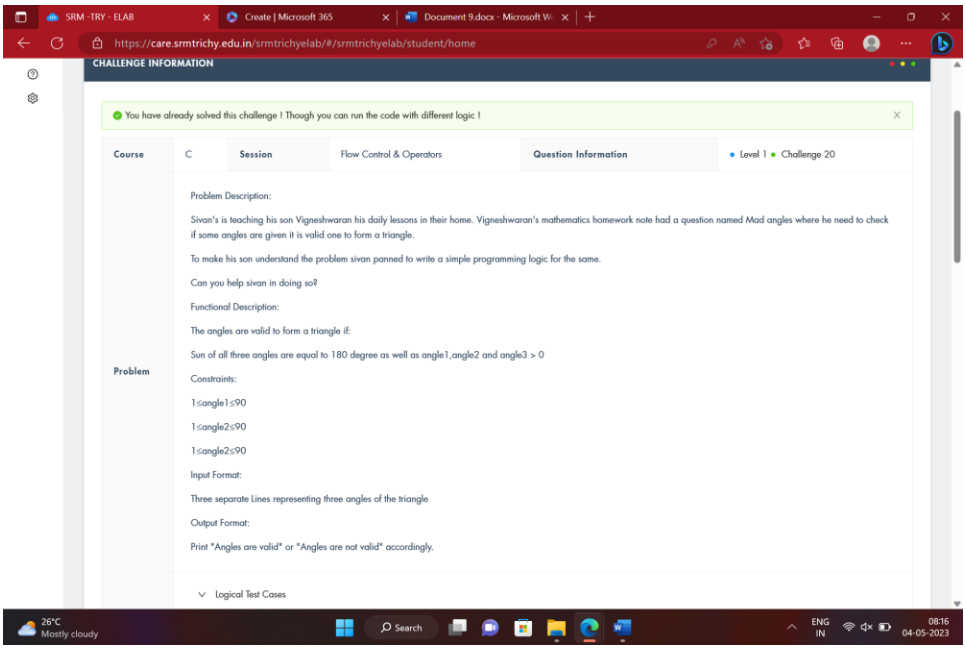
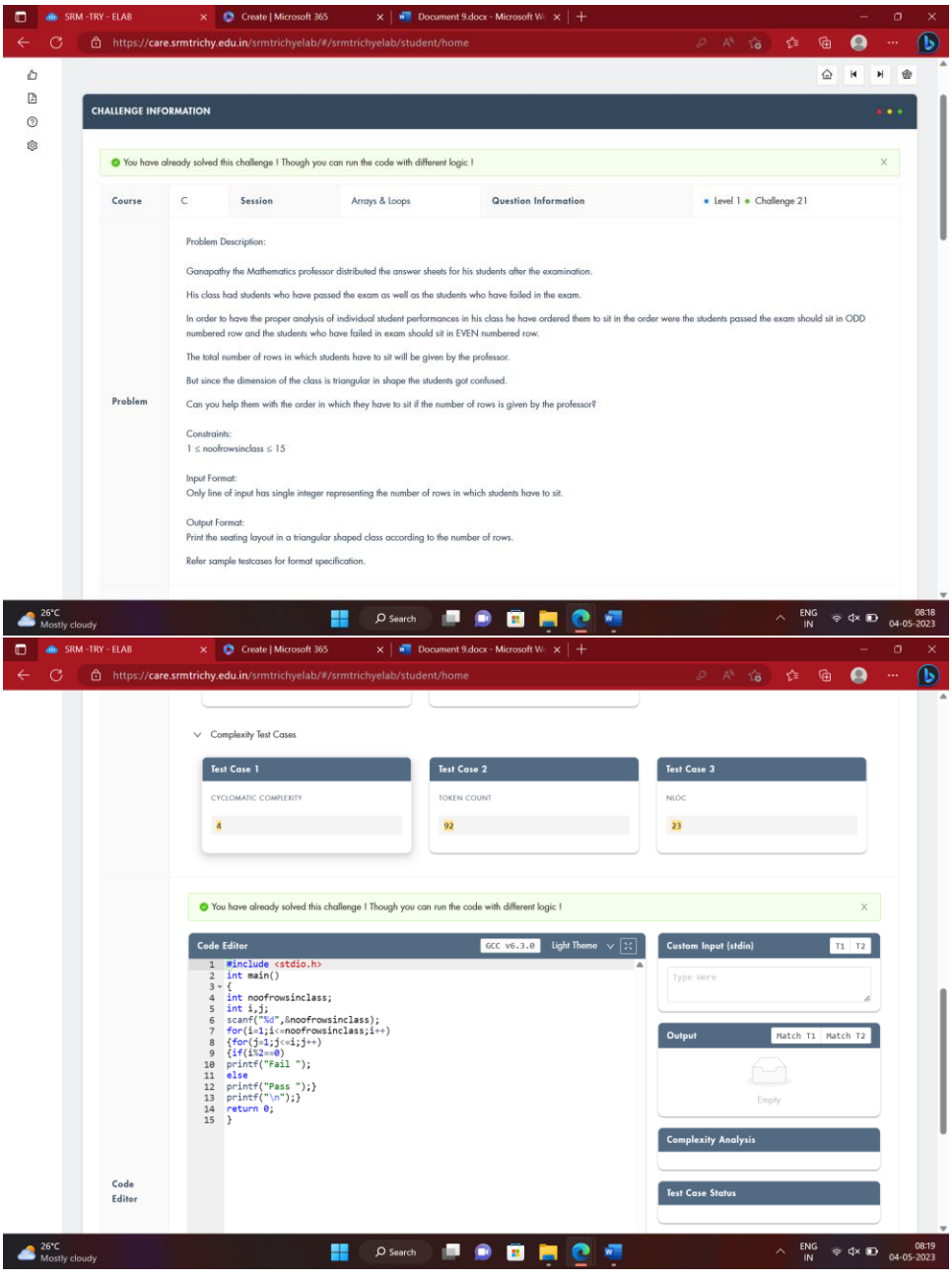
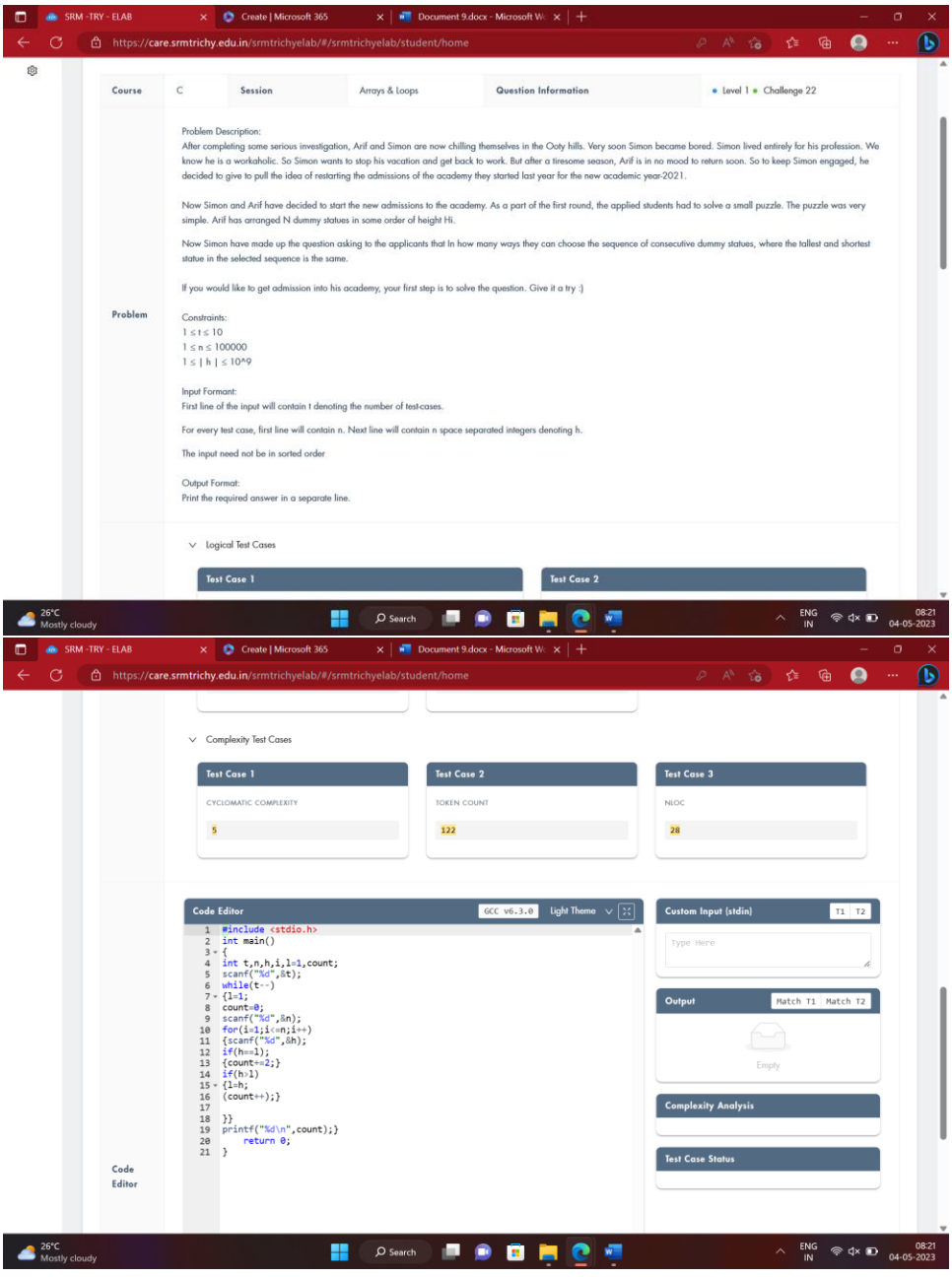
Document 9.docx - Microsoft W
https://care.srmtrichy.edu.in/srmtrichyelab/#/srmtrichyelab/student/home
You have already solved this challenge ! Though you can run the code with different logic !
Code Editor
GCC V6.3.0
Light Theme
#include <stdio.h>
int main()
{
int a,b,c;
scanf("%d %d %d",&a,&b,&c);
if ((a==c&&b!=c)||(b==c&&c!=a))
printf("Yes");
else
printf("No");
return 0;
}
Save
Reset
Run
Evaluate
Custom Input (stdin)
T1
T2
Type Here
Output
Match T1
Match T2
Empty
Complexity Analysis
Test Case Status
Code Editor
26°C
Mostly cloudy
Search
ENG
IN
08:12
04-05-2023


SRM -TRY - ELAB
Create | Microsoft 365
Document 9.docx - Microsoft W
https://care.srmtrichy.edu.in/srmtrichyelab/#/srmtrichyelab/student/home
Problem
Problem Description:
There are two monkeys on an x-axis ready to jump in the positive direction (i.e, toward positive infinity).
The first monkey starts at location x1 and moves at a rate of v1 meters per jump.
The second monkey starts at location x2 and moves at a rate of v2 meters per jump.
Given the starting locations and movement rates for each monkey, can you determine if they'll ever land at the same location at the same time?
Constraints:
• 0≤x1<x2≤10000
• 1≤v1≤10000
• 1≤v2≤10000
Input Format
A single line of four space-separated integers denoting the respective values of x1, v1, x2 and v2.
Output Format:
Print YES if they can land on the same location at the same time; otherwise, print NO.
Note: The two monkeys must land at the same location after making the same number of jumps.
Logical Test Cases
Test Case 1
INPUT (STDIN)
0 3 4 2
EXPECTED OUTPUT
YES
Test Case 2
INPUT (STDIN)
0 2 5 3
EXPECTED OUTPUT
NO
26°C
Mostly cloudy
Search
ENG
IN
08:12
04-05-2023

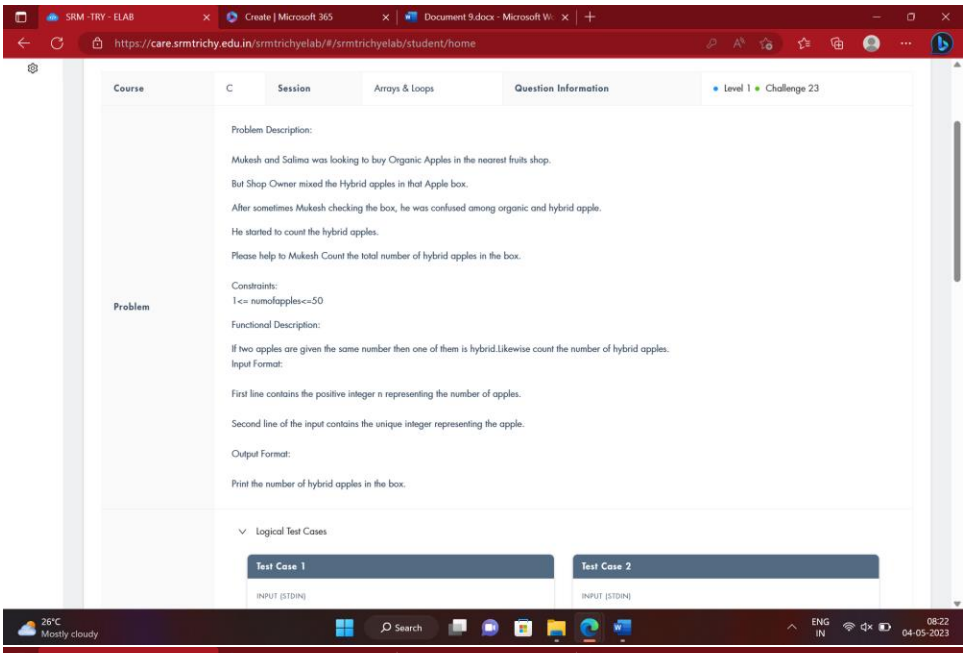

SRM -TRY - ELAB
Create | Microsoft 365
Document 9.docx - Microsoft W
https://care.srmtrichy.edu.in/srmtrichyelab/#/srmtrichyelab/student/home
CHALLENGE INFORMATION
You have already solved this challenge ! Though you can run the code with different logic !
Course
C
Session
Flow Control & Operators
Question Information
Level 1 • Challenge 20
Problem
Problem Description:
Sivan's is teaching his son Vigneshwaran his daily lessons in their home. Vigneshwaran's mathematics homework note had a question named Mad angles where he need to check if some angles are given it is valid one to form a triangle.
To make his son understand the problem sivan panned to write a simple programming logic for the same.
Can you help sivan in doing so?
Functional Description:
The angles are valid to form a triangle if:
Sun of all three angles are equal to 180 degree as well as angle1,angle2 and angle3 > 0
Constraints:
1≤angle1≤90
1≤angle2≤90
1≤angle2≤90
Input Format:
Three separate Lines representing three angles of the triangle
Output Format:
Print "Angles are valid" or "Angles are not valid" accordingly.
Logical Test Cases
26°C
Mostly cloudy
Search
ENG
IN
08:16
04-05-2023

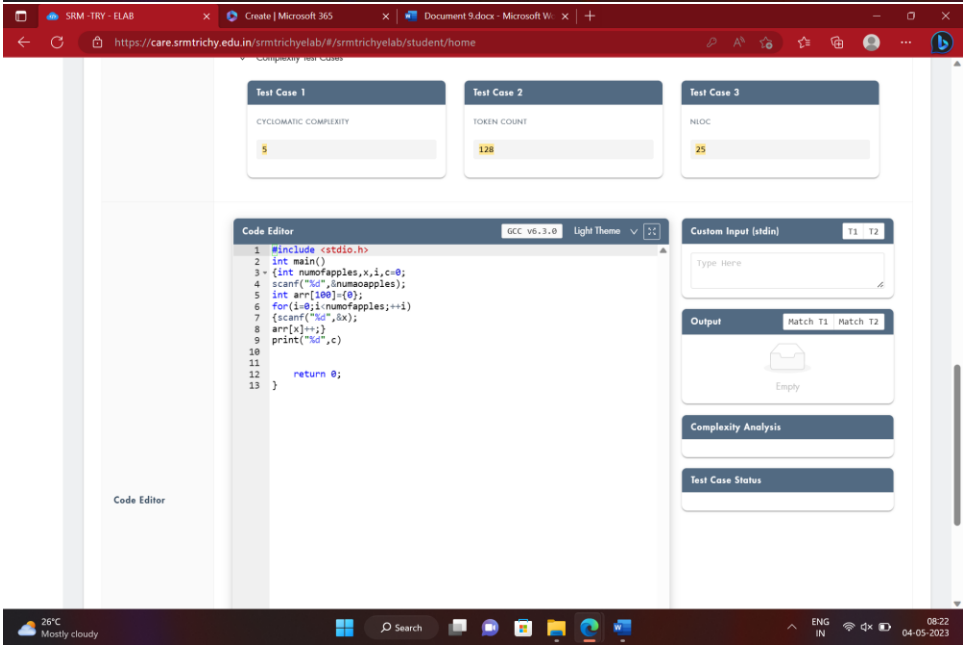

SRM -TRY - ELAB
Create | Microsoft 365
Document 9.docx - Microsoft W
https://care.srmtrichy.edu.in/srmtrichyelab/#/srmtrichyelab/student/home
CHALLENGE INFORMATION
You have already solved this challenge ! Though you can run the code with different logic !
Course
C
Session
Arrays & Loops
Question Information
Level 1 • Challenge 21
Problem
Problem Description:
Ganapathy the Mathematics professor distributed the answer sheets for his students after the examination.
His class had students who have passed the exam as well as the students who have failed in the exam.
In order to have the proper analysis of individual student performances in his class he have ordered them to sit in the order were the students passed the exam should sit in ODD numbered row and the students who have failed in exam should sit in EVEN numbered row.
The total number of rows in which students have to sit will be given by the professor.
But since the dimension of the class is triangular in shape the students got confused.
Can you help them with the order in which they have to sit if the number of rows is given by the professor?
Constraints:
1 ≤ noofrowsinclass ≤ 15
Input Format:
Only line of input has single integer representing the number of rows in which students have to sit.
Output Format:
Print the seating layout in a triangular shaped class according to the number of rows.
Refer sample testcases for format specification.
26°C
Mostly cloudy
Search
ENG
IN
08:18
04-05-2023

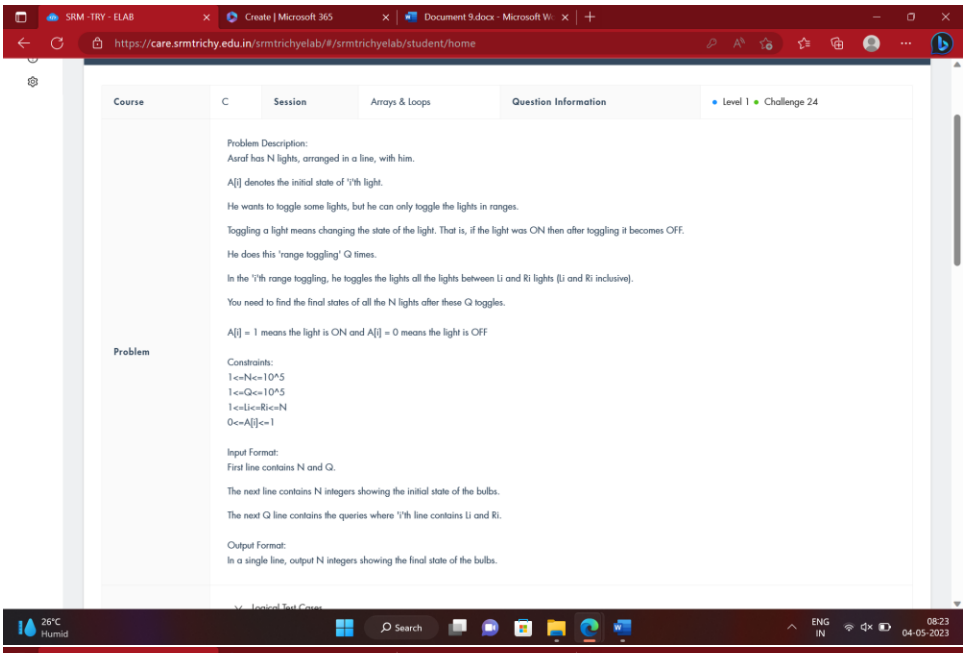
SRM -TRY - ELAB
Create | Microsoft 365
Document 9.docx - Microsoft W
https://care.srmtrichy.edu.in/srmtrichyelab/#/srmtrichyelab/student/home
Complexity Test Cases
Test Case 1
CYCLOMATIC COMPLEXITY
4
Test Case 2
TOKEN COUNT
92
Test Case 3
NLOC
23
You have already solved this challenge ! Though you can run the code with different logic !
Code Editor
GCC v6.3.0
Light Theme
1 #include <stdio.h>
2 int main()
3 {
4 int noofrowsinclass;
5 int i,j;
6 scanf("%d",&noofrowsinclass);
7 for(i=1;i<=noofrowsinclass;i++)
8 {for(j=1;j<=i;j++)
9 {if(i%2==0)
10 printf("Fail ");
11 else
12 printf("Pass ");}
13 printf("\n");}
14 return 0;
15 }
Custom Input (stdin)
T1
T2
Type Here
Output
Match T1
Match T2
Empty
Complexity Analysis
Test Case Status
Code Editor
26°C
Mostly cloudy
Search
ENG
IN
08:19
04-05-2023

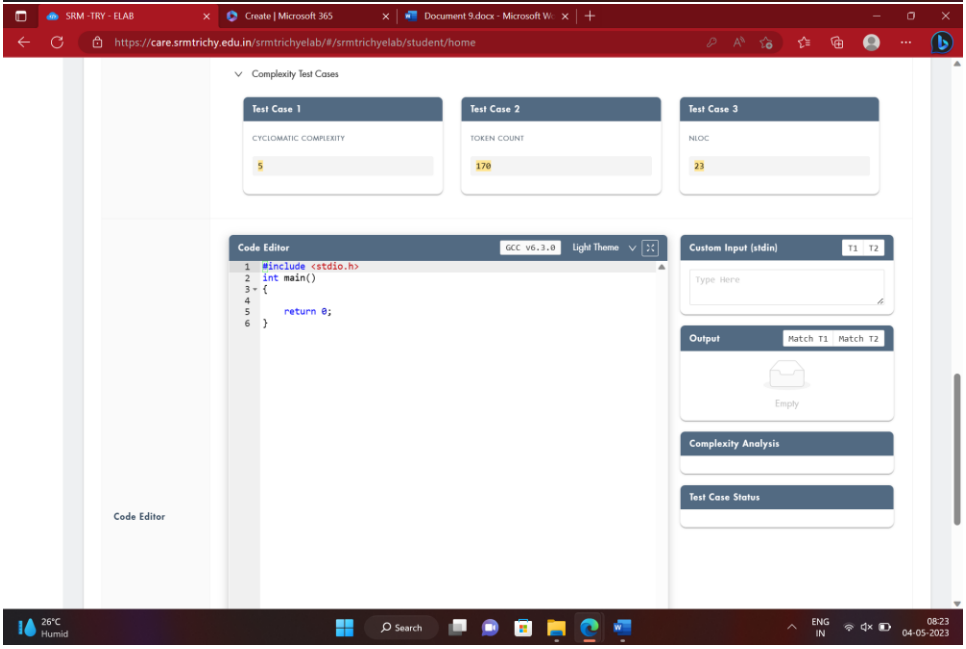

SRM -TRY - ELAB
Create | Microsoft 365
Document 9.docx - Microsoft W
https://care.srmtrichy.edu.in/srmtrichyelab/#/srmtrichyelab/student/home
Course
C
Session
Arrays & Loops
Question Information
Level 1
Challenge 22
Problem Description:
After completing some serious investigation, Arif and Simon are now chilling themselves in the Ooty hills. Very soon Simon became bored. Simon lived entirely for his profession. We know he is a workaholic. So Simon wants to stop his vacation and get back to work. But after a tiresome season, Arif is in no mood to return soon. So to keep Simon engaged, he decided to give to pull the idea of restarting the admissions of the academy they started last year for the new academic year-2021.
Now Simon and Arif have decided to start the new admissions to the academy. As a part of the first round, the applied students had to solve a small puzzle. The puzzle was very simple. Arif has arranged N dummy statues in some order of height Hi.
Now Simon have made up the question asking to the applicants that In how many ways they can choose the sequence of consecutive dummy statues, where the tallest and shortest statue in the selected sequence is the same.
If you would like to get admission into his academy, your first step is to solve the question. Give it a try :)
Problem
Constraints:
1 ≤ t ≤ 10
1 ≤ n ≤ 100000
1 ≤ | h | ≤ 10^9
Input Formant:
First line of the input will contain t denoting the number of test-cases.
For every test case, first line will contain n. Next line will contain n space separated integers denoting h.
The input need not be in sorted order
Output Format:
Print the required answer in a separate line.
Logical Test Cases
Test Case 1
Test Case 2
26°C
Mostly cloudy
Search
ENG
IN
08:21
04-05-2023

SRM -TRY - ELAB
Create | Microsoft 365
Document 9.docx - Microsoft W
https://care.srmtrichy.edu.in/srmtrichyelab/#/srmtrichyelab/student/home
Complexity Test Cases
Test Case 1
CYCLOMATIC COMPLEXITY
5
Test Case 2
TOKEN COUNT
122
Test Case 3
NLOC
28
Code Editor
GCC v6.3.0
Light Theme
#include <stdio.h>
int main()
{
int t,n,h,i,l=1,count;
scanf("%d",&t);
while(t--)
{l=1;
count=0;
scanf("%d",&n);
for(i=1;i<=n;i++)
{scanf("%d",&h);
if(h==l);
{count+=2;}
if(h>l)
{l=h;
(count++);}
}}
printf("%d\n",count);}
return 0;
}
Custom Input (stdin)
T1
T2
Type Here
Output
Match T1
Match T2
Empty
Complexity Analysis
Test Case Status
Code Editor
26°C
Mostly cloudy
Search
ENG
IN
08:21
04-05-2023


SRM -TRY - ELAB
Create | Microsoft 365
Document 9.docx - Microsoft W
https://care.srmtrichy.edu.in/srmtrichyelab/#/srmtrichyelab/student/home
Course
C
Session
Arrays & Loops
Question Information
Level 1 Challenge 23
Problem
Problem Description:
Mukesh and Salima was looking to buy Organic Apples in the nearest fruits shop.
But Shop Owner mixed the Hybrid apples in that Apple box.
After sometimes Mukesh checking the box, he was confused among organic and hybrid apple.
He started to count the hybrid apples.
Please help to Mukesh Count the total number of hybrid apples in the box.
Constraints:
1<= numofapples<=50
Functional Description:
If two apples are given the same number then one of them is hybrid.Likewise count the number of hybrid apples.
Input Format:
First line contains the positive integer n representing the number of apples.
Second line of the input contains the unique integer representing the apple.
Output Format:
Print the number of hybrid apples in the box.
Logical Test Cases
Test Case 1
INPUT (STDIN)
Test Case 2
INPUT (STDIN)
26°C
Mostly cloudy
Search
ENG
IN
08:22
04-05-2023


SRM -TRY - ELAB
Create | Microsoft 365
Document 9.docx - Microsoft W
https://care.srmtrichy.edu.in/srmtrichyelab/#/srmtrichyelab/student/home
Test Case 1
CYCLOMATIC COMPLEXITY
5
Test Case 2
TOKEN COUNT
128
Test Case 3
NLOC
25
Code Editor
Code Editor
GCC V6.3.0
Light Theme
1 #include <stdio.h>
2 int main()
3 {int numofapples,x,i,c=0;
4 scanf("%d",&numaoapples);
5 int arr[100]={0};
6 for(i=0;i<numofapples;++i)
7 {scanf("%d",&x);
8 arr[x]++;}
9 print("%d",c)
10
11
12 return 0;
13 }
Custom Input (stdin)
T1 T2
Type Here
Output
Match T1 Match T2
Empty
Complexity Analysis
Test Case Status
26°C
Mostly cloudy
Search
ENG
IN
08:22
04-05-2023


SRM -TRY - ELAB
Create | Microsoft 365
Document 9.docx - Microsoft W
https://care.srmtrichy.edu.in/srmtrichyelab/#/srmtrichyelab/student/home
Course
C
Session
Arrays & Loops
Question Information
Level 1 Challenge 24
Problem
Problem Description:
Asraf has N lights, arranged in a line, with him.
A[i] denotes the initial state of 'i'th light.
He wants to toggle some lights, but he can only toggle the lights in ranges.
Toggling a light means changing the state of the light. That is, if the light was ON then after toggling it becomes OFF.
He does this 'range toggling' Q times.
In the 'i'th range toggling, he toggles the lights all the lights between Li and Ri lights (Li and Ri inclusive).
You need to find the final states of all the N lights after these Q toggles.
A[i] = 1 means the light is ON and A[i] = 0 means the light is OFF
Constraints:
1<=N<=10^5
1<=Q<=10^5
1<=Li<=Ri<=N
0<=A[i]<=1
Input Format:
First line contains N and Q.
The next line contains N integers showing the initial state of the bulbs.
The next Q line contains the queries where 'i'th line contains Li and Ri.
Output Format:
In a single line, output N integers showing the final state of the bulbs.
26°C Humid
Search
ENG IN
08:23 04-05-2023


SRM -TRY - ELAB
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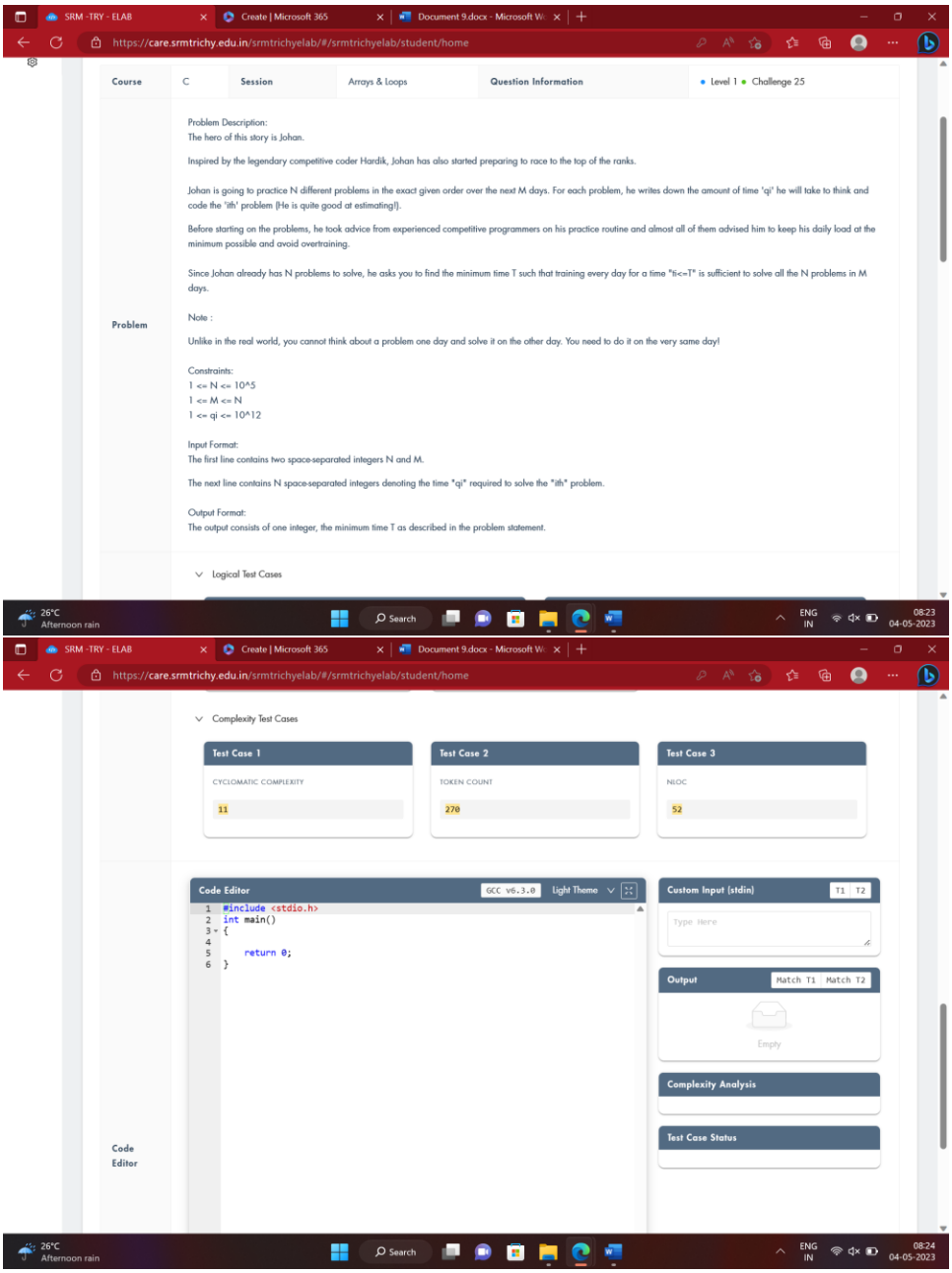
Document 9.docx - Microsoft W
https://care.srmtrichy.edu.in/srmtrichyelab/#/srmtrichyelab/student/home
Complexity Test Cases
Test Case 1
CYCLOMATIC COMPLEXITY
5
Test Case 2
TOKEN COUNT
170
Test Case 3
NLOC
23
Code Editor
Code Editor
GCC v6.3.0
Light Theme
1 #include <stdio.h>
2 int main()
3 {
4
5 return 0;
6 }
Custom Input (stdin)
T1 T2
Type Here
Output
Match T1 Match T2
Empty
Complexity Analysis
Test Case Status
26°C Humid
Search
ENG IN
08:23 04-05-2023


SRM -TRY - ELAB
Create | Microsoft 365
Document 9.docx - Microsoft W
https://care.srmtrichy.edu.in/srmtrichyelab/#/srmtrichyelab/student/home
Course
C
Session
Arrays & Loops
Question Information
Level 1 • Challenge 25
Problem
Problem Description:
The hero of this story is Johan.
Inspired by the legendary competitive coder Hardik, Johan has also started preparing to race to the top of the ranks.
Johan is going to practice N different problems in the exact given order over the next M days. For each problem, he writes down the amount of time 'qi' he will take to think and code the 'ith' problem (He is quite good at estimating!).
Before starting on the problems, he took advice from experienced competitive programmers on his practice routine and almost all of them advised him to keep his daily load at the minimum possible and avoid overtraining.
Since Johan already has N problems to solve, he asks you to find the minimum time T such that training every day for a time "t<=T" is sufficient to solve all the N problems in M days.
Note :
Unlike in the real world, you cannot think about a problem one day and solve it on the other day. You need to do it on the very same day!
Constraints:
1 <= N <= 10^5
1 <= M <= N
1 <= qi <= 10^12
Input Format:
The first line contains two space-separated integers N and M.
The next line contains N space-separated integers denoting the time "qi" required to solve the "ith" problem.
Output Format:
The output consists of one integer, the minimum time T as described in the problem statement.
Logical Test Cases
26°C
Afternoon rain
Search
ENG
IN
08:23
04-05-2023

SRM -TRY - ELAB
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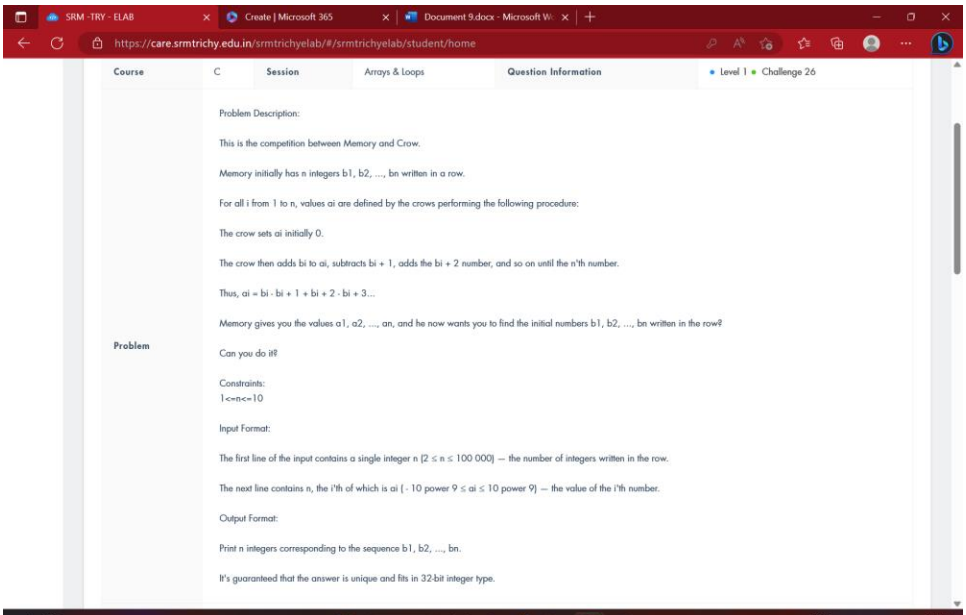
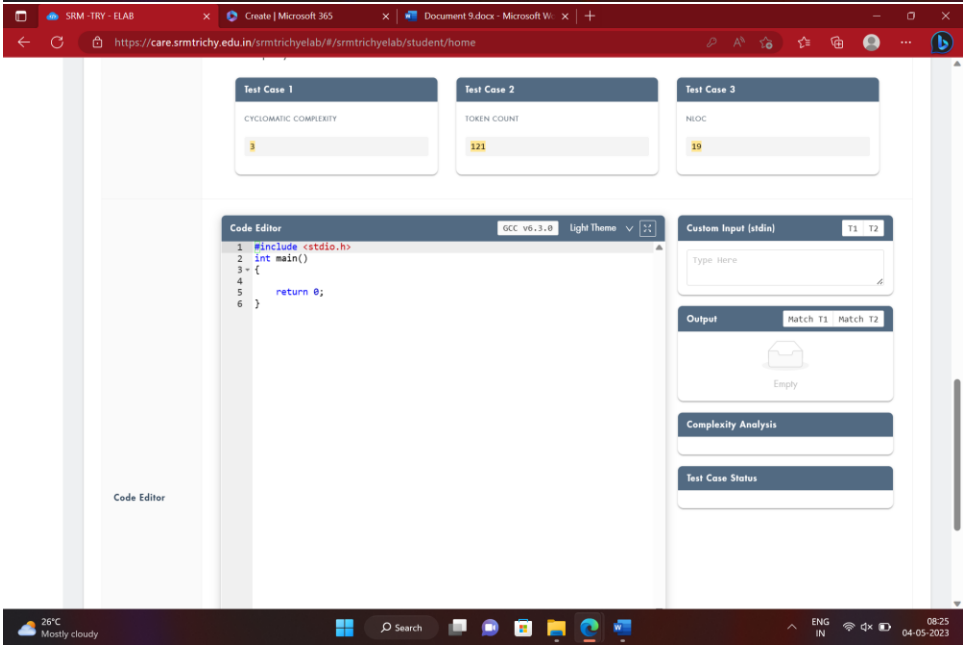
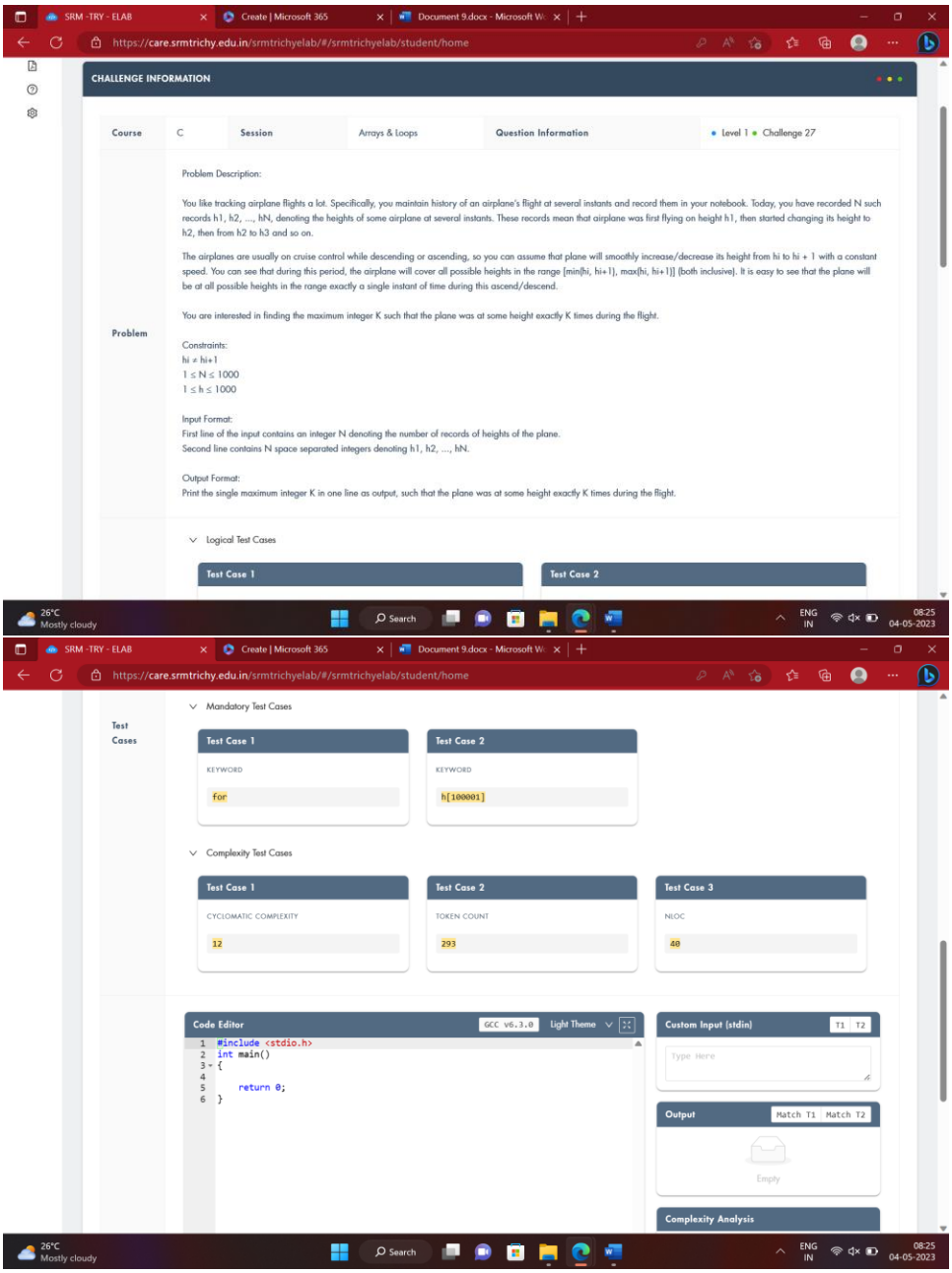
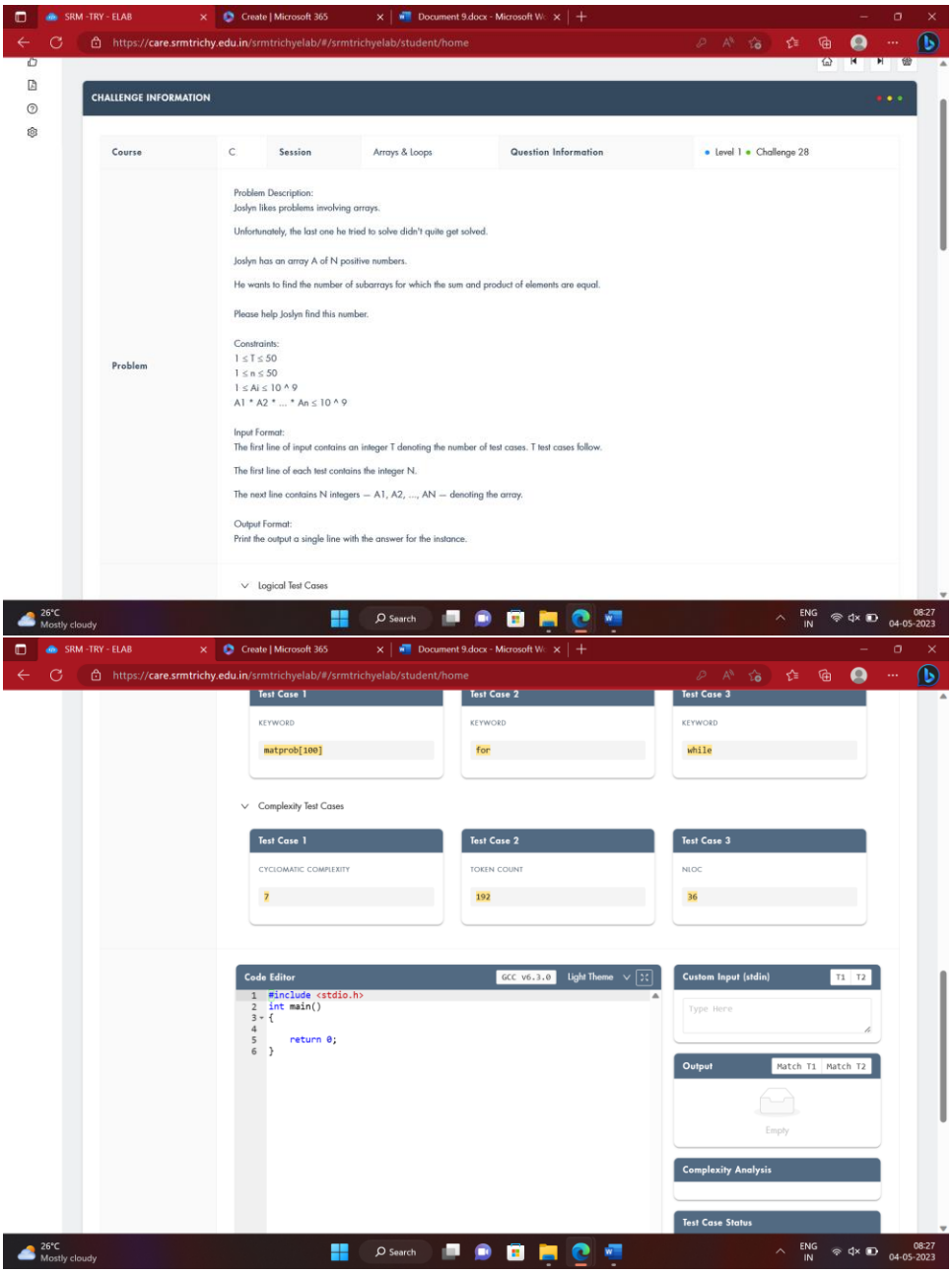
Document 9.docx - Microsoft W
https://care.srmtrichy.edu.in/srmtrichyelab/#/srmtrichyelab/student/home
Complexity Test Cases
Test Case 1
CYCLOMATIC COMPLEXITY
11
Test Case 2
TOKEN COUNT
270
Test Case 3
NLOC
52
Code Editor
GCC v6.3.0
Light Theme
#include <stdio.h>
int main()
{
return 0;
}
Custom Input (stdin)
T1
T2
Type Here
Output
Match T1
Match T2
Empty
Complexity Analysis
Test Case Status
Code Editor
26°C
Afternoon rain
Search
ENG
IN
08:24
04-05-2023

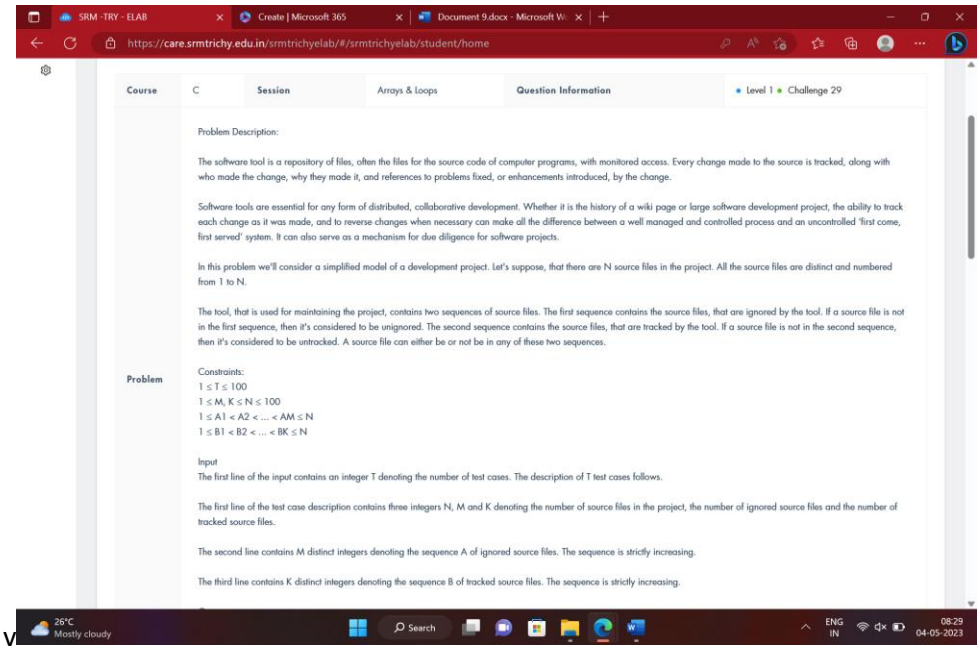

SRM -TRY - ELAB
Create | Microsoft 365
Document 9.docx - Microsoft W
https://care.srmtrichy.edu.in/srmtrichyelab/#/srmtrichyelab/student/home
Course
C
Session
Arrays & Loops
Question Information
Level 1 • Challenge 26
Problem
Problem Description:
This is the competition between Memory and Crow.
Memory initially has n integers b1, b2, ..., bn written in a row.
For all i from 1 to n, values ai are defined by the crows performing the following procedure:
The crow sets ai initially 0.
The crow then adds bi to ai, subtracts bi + 1, adds the bi + 2 number, and so on until the n'th number.
Thus, ai = bi - bi + 1 + bi + 2 - bi + 3....
Memory gives you the values a1, a2, ..., an, and he now wants you to find the initial numbers b1, b2, ..., bn written in the row?
Can you do it?
Constraints:
1<=n<=10
Input Format:
The first line of the input contains a single integer n (2 ≤ n ≤ 100 000) — the number of integers written in the row.
The next line contains n, the i'th of which is ai (- 10 power 9 ≤ ai ≤ 10 power 9) — the value of the i'th number.
Output Format:
Print n integers corresponding to the sequence b1, b2, ..., bn.
It's guaranteed that the answer is unique and fits in 32-bit integer type.
26°C
Afternoon rain
Search
ENG
IN
08:24
04-05-2023

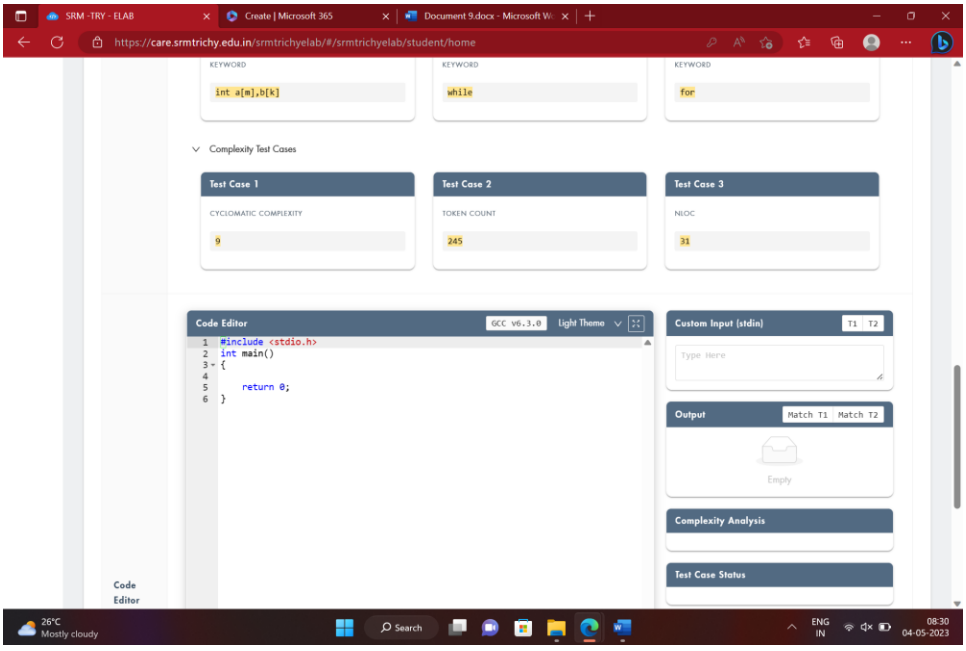

SRM -TRY - ELAB
Create | Microsoft 365
Document 9.docx - Microsoft W
https://care.srmtrichy.edu.in/srmtrichyelab/#/srmtrichyelab/student/home
Test Case 1
CYCLOMATIC COMPLEXITY
3
Test Case 2
TOKEN COUNT
121
Test Case 3
NLOC
19
Code Editor
Code Editor
GCC V6.3.0
Light Theme
1 #include <stdio.h>
2 int main()
3 {
4
5 return 0;
6 }
Custom Input (stdin)
T1 T2
Type Here
Output
Match T1 Match T2
Empty
Complexity Analysis
Test Case Status
26°C
Mostly cloudy
Search
ENG
IN
08:25
04-05-2023

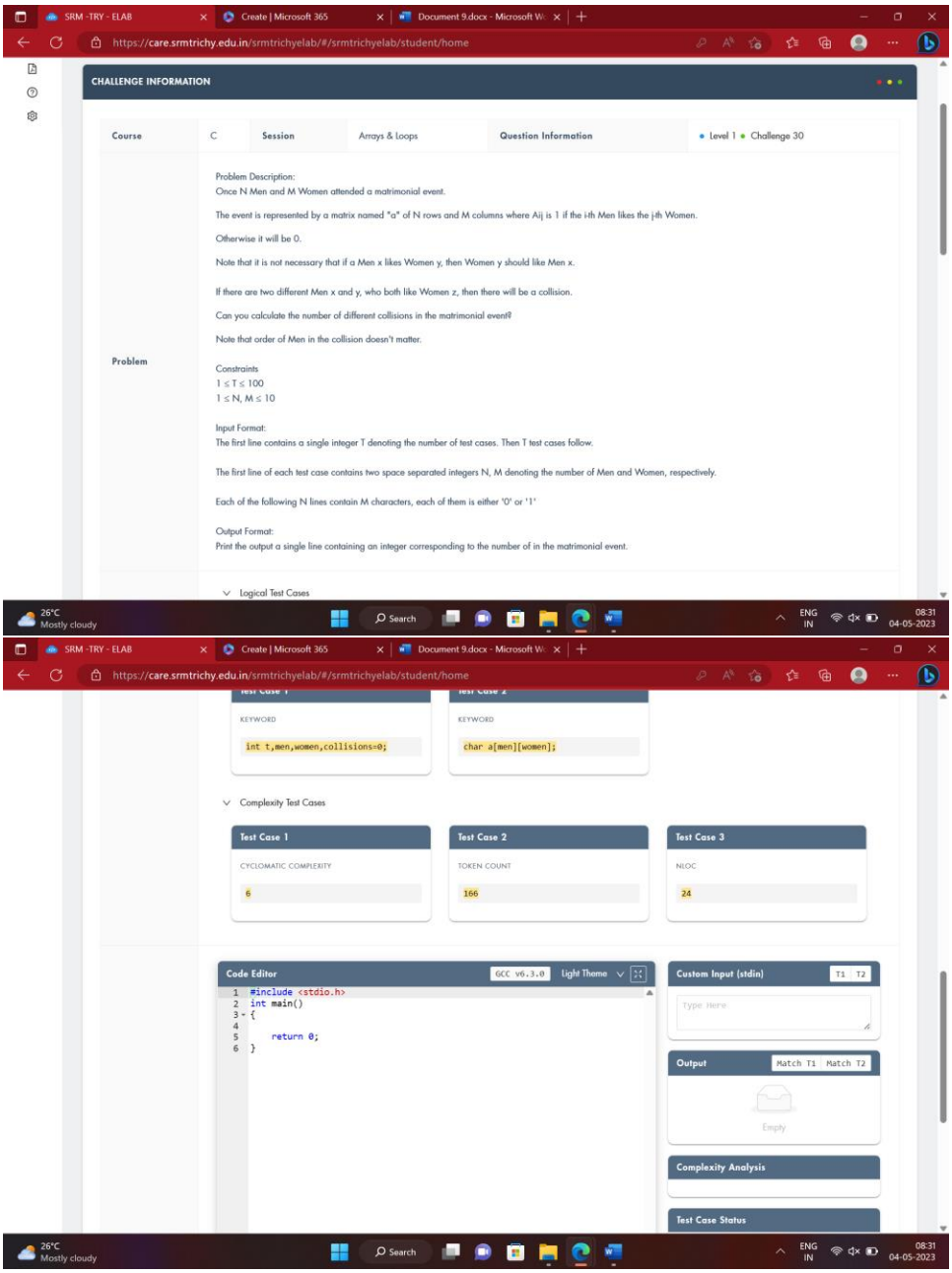

SRM -TRY - ELAB
Create | Microsoft 365
Document 9.docx - Microsoft W
https://care.srmtrichy.edu.in/srmtrichyelab/#/srmtrichyelab/student/home
CHALLENGE INFORMATION
Course
C
Session
Arrays & Loops
Question Information
Level 1 • Challenge 27
Problem
Problem Description:
You like tracking airplane flights a lot. Specifically, you maintain history of an airplane's flight at several instants and record them in your notebook. Today, you have recorded N such records h1, h2, ..., hN, denoting the heights of some airplane at several instants. These records mean that airplane was first flying on height h1, then started changing its height to h2, then from h2 to h3 and so on.
The airplanes are usually on cruise control while descending or ascending, so you can assume that plane will smoothly increase/decrease its height from hi to hi + 1 with a constant speed. You can see that during this period, the airplane will cover all possible heights in the range [min(hi, hi+1), max(hi, hi+1)] (both inclusive). It is easy to see that the plane will be at all possible heights in the range exactly a single instant of time during this ascend/descend.
You are interested in finding the maximum integer K such that the plane was at some height exactly K times during the flight.
Constraints:
hi ≠ hi+1
1 ≤ N ≤ 1000
1 ≤ h ≤ 1000
Input Format:
First line of the input contains an integer N denoting the number of records of heights of the plane.
Second line contains N space separated integers denoting h1, h2, ..., hN.
Output Format:
Print the single maximum integer K in one line as output, such that the plane was at some height exactly K times during the flight.
Logical Test Cases
Test Case 1
Test Case 2
26°C
Mostly cloudy
Search
ENG
IN
08:25
04-05-2023
SRM -TRY - ELAB
Create | Microsoft 365
Document 9.docx - Microsoft W
https://care.srmtrichy.edu.in/srmtrichyelab/#/srmtrichyelab/student/home
Test Cases
Mandatory Test Cases
Test Case 1
KEYWORD
for
Test Case 2
KEYWORD
h[100001]
Complexity Test Cases
Test Case 1
CYCLOMATIC COMPLEXITY
12
Test Case 2
TOKEN COUNT
293
Test Case 3
NLOC
40
Code Editor
GCC v6.3.0
Light Theme
#include <stdio.h>
int main()
{
return 0;
}
Custom Input (stdin)
T1
T2
Type Here
Output
Match T1
Match T2
Empty
Complexity Analysis
26°C
Mostly cloudy
Search
ENG
IN
08:25
04-05-2023

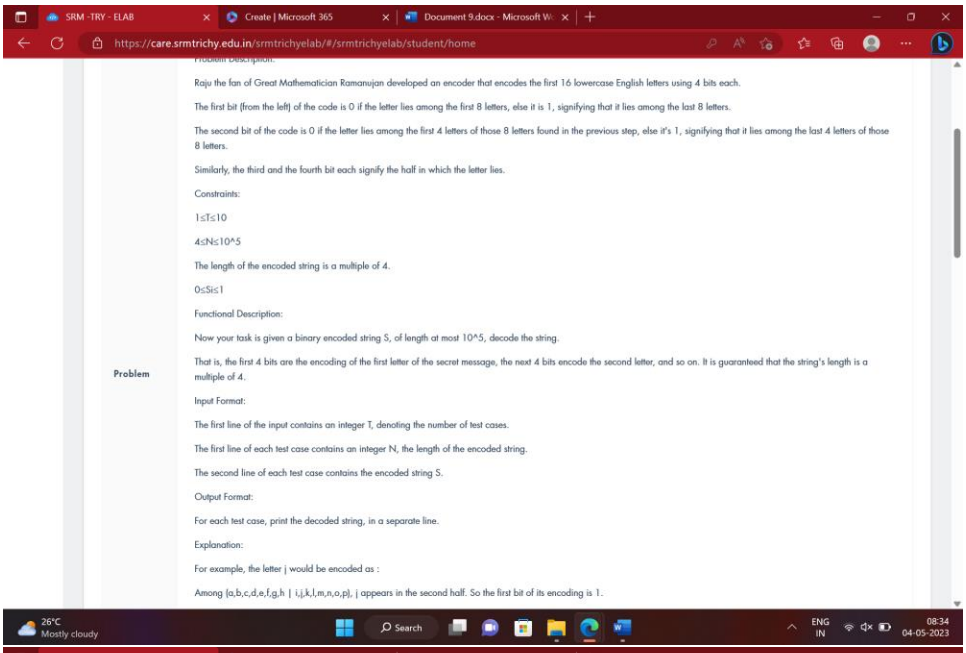

SRM -TRY - ELAB
Create | Microsoft 365
Document 9.docx - Microsoft W
https://care.srmtrichy.edu.in/srmtrichyelab/#/srmtrichyelab/student/home
CHALLENGE INFORMATION
Course
C
Session
Arrays & Loops
Question Information
Level 1 Challenge 28
Problem
Problem Description:
Joslyn likes problems involving arrays.
Unfortunately, the last one he tried to solve didn't quite get solved.
Joslyn has an array A of N positive numbers.
He wants to find the number of subarrays for which the sum and product of elements are equal.
Please help Joslyn find this number.
Constraints:
1 ≤ T ≤ 50
1 ≤ n ≤ 50
1 ≤ Ai ≤ 10 ^ 9
A1 * A2 * ... * An ≤ 10 ^ 9
Input Format:
The first line of input contains an integer T denoting the number of test cases. T test cases follow.
The first line of each test contains the integer N.
The next line contains N integers — A1, A2, ..., AN — denoting the array.
Output Format:
Print the output a single line with the answer for the instance.
Logical Test Cases
26°C
Mostly cloudy
Search
ENG
IN
08:27
04-05-2023

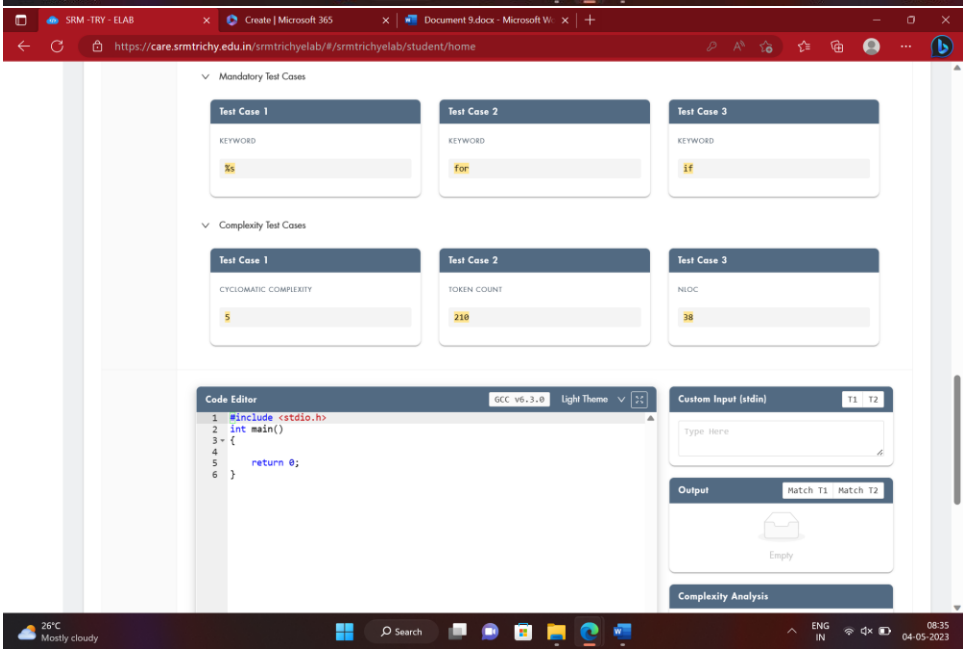
SRM -TRY - ELAB
Create | Microsoft 365
Document 9.docx - Microsoft W
https://care.srmtrichy.edu.in/srmtrichyelab/#/srmtrichyelab/student/home
Test Case 1
KEYWORD
matprob[100]
Test Case 2
KEYWORD
for
Test Case 3
KEYWORD
while
Complexity Test Cases
Test Case 1
CYCLOMATIC COMPLEXITY
7
Test Case 2
TOKEN COUNT
192
Test Case 3
NLOC
36
Code Editor
GCC v6.3.0
Light Theme
1 #include <stdio.h>
2 int main()
3 {
4
5 return 0;
6 }
Custom Input (stdin)
T1 T2
Type Here
Output
Match T1 Match T2
Empty
Complexity Analysis
Test Case Status
26°C
Mostly cloudy
Search
ENG
IN
08:27
04-05-2023


SRM -TRY - ELAB
Create | Microsoft 365
Document 9.docx - Microsoft W
https://care.srmtrichy.edu.in/srmtrichyelab/#/srmtrichyelab/student/home
Course
C
Session
Arrays & Loops
Question Information
Level 1 • Challenge 29
Problem
Problem Description:
The software tool is a repository of files, often the files for the source code of computer programs, with monitored access. Every change made to the source is tracked, along with who made the change, why they made it, and references to problems fixed, or enhancements introduced, by the change.
Software tools are essential for any form of distributed, collaborative development. Whether it is the history of a wiki page or large software development project, the ability to track each change as it was made, and to reverse changes when necessary can make all the difference between a well managed and controlled process and an uncontrolled 'first come, first served' system. It can also serve as a mechanism for due diligence for software projects.
In this problem we'll consider a simplified model of a development project. Let's suppose, that there are N source files in the project. All the source files are distinct and numbered from 1 to N.
The tool, that is used for maintaining the project, contains two sequences of source files. The first sequence contains the source files, that are ignored by the tool. If a source file is not in the first sequence, then it's considered to be unignored. The second sequence contains the source files, that are tracked by the tool. If a source file is not in the second sequence, then it's considered to be untracked. A source file can either be or not be in any of these two sequences.
Constraints:
1 ≤ T ≤ 100
1 ≤ M, K ≤ N ≤ 100
1 ≤ A1 < A2 < ... < AM ≤ N
1 ≤ B1 < B2 < ... < BK ≤ N
Input
The first line of the input contains an integer T denoting the number of test cases. The description of T test cases follows.
The first line of the test case description contains three integers N, M and K denoting the number of source files in the project, the number of ignored source files and the number of tracked source files.
The second line contains M distinct integers denoting the sequence A of ignored source files. The sequence is strictly increasing.
The third line contains K distinct integers denoting the sequence B of tracked source files. The sequence is strictly increasing.
26°C
Mostly cloudy
Search
ENG
IN
08:29
04-05-2023


SRM -TRY - ELAB
Create | Microsoft 365
Document 9.docx - Microsoft W
https://care.srmtrichy.edu.in/srmtrichyelab/#/srmtrichyelab/student/home
KEYWORD
int a[m],b[k]
KEYWORD
while
KEYWORD
for
Complexity Test Cases
Test Case 1
CYCLOMATIC COMPLEXITY
9
Test Case 2
TOKEN COUNT
245
Test Case 3
NLOC
31
Code Editor
GCC v6.3.0
Light Theme
#include <stdio.h>
int main()
{
return 0;
}
Custom Input (stdin)
T1
T2
Type Here
Output
Match T1
Match T2
Empty
Complexity Analysis
Test Case Status
Code Editor
26°C
Mostly cloudy
Search
ENG
IN
08:30
04-05-2023


SRM -TRY - ELAB
Create | Microsoft 365
Document 9.docx - Microsoft W
https://care.srmtrichy.edu.in/srmtrichyelab/#/srmtrichyelab/student/home
CHALLENGE INFORMATION
Course
C
Session
Arrays & Loops
Question Information
Level 1 • Challenge 30
Problem
Problem Description:
Once N Men and M Women attended a matrimonial event.
The event is represented by a matrix named "a" of N rows and M columns where Aij is 1 if the i-th Men likes the j-th Women.
Otherwise it will be 0.
Note that it is not necessary that if a Men x likes Women y, then Women y should like Men x.
If there are two different Men x and y, who both like Women z, then there will be a collision.
Can you calculate the number of different collisions in the matrimonial event?
Note that order of Men in the collision doesn't matter.
Constraints
1 ≤ T ≤ 100
1 ≤ N, M ≤ 10
Input Format:
The first line contains a single integer T denoting the number of test cases. Then T test cases follow.
The first line of each test case contains two space separated integers N, M denoting the number of Men and Women, respectively.
Each of the following N lines contain M characters, each of them is either '0' or '1'
Output Format:
Print the output a single line containing an integer corresponding to the number of in the matrimonial event.
Logical Test Cases
KEYWORD
int t,men,women,collisions=0;
KEYWORD
char a[men][women];
Complexity Test Cases
Test Case 1
CYCLOMATIC COMPLEXITY
6
Test Case 2
TOKEN COUNT
166
Test Case 3
NLOC
24
Code Editor
GCC v6.3.0
Light Theme
#include <stdio.h>
int main()
{
return 0;
}
Custom Input (stdin)
T1
T2
Type Here
Output
Match T1
Match T2
Empty
Complexity Analysis
Test Case Status
26°C
Mostly cloudy
Search
ENG
IN
08:31
04-05-2023


SRM -TRY - ELAB
Create | Microsoft 365
Document 9.docx - Microsoft W
https://care.srmtrichy.edu.in/srmtrichyelab/#/srmtrichyelab/student/home
Problem Description:
Raju the fan of Great Mathematician Ramanujan developed an encoder that encodes the first 16 lowercase English letters using 4 bits each.
The first bit (from the left) of the code is 0 if the letter lies among the first 8 letters, else it is 1, signifying that it lies among the last 8 letters.
The second bit of the code is 0 if the letter lies among the first 4 letters of those 8 letters found in the previous step, else it's 1, signifying that it lies among the last 4 letters of those 8 letters.
Similarly, the third and the fourth bit each signify the half in which the letter lies.
Constraints:
1≤T≤10
4≤N≤10^5
The length of the encoded string is a multiple of 4.
0≤Si≤1
Functional Description:
Now your task is given a binary encoded string S, of length at most 10^5, decode the string.
That is, the first 4 bits are the encoding of the first letter of the secret message, the next 4 bits encode the second letter, and so on. It is guaranteed that the string's length is a multiple of 4.
Problem
Input Format:
The first line of the input contains an integer T, denoting the number of test cases.
The first line of each test case contains an integer N, the length of the encoded string.
The second line of each test case contains the encoded string S.
Output Format:
For each test case, print the decoded string, in a separate line.
Explanation:
For example, the letter j would be encoded as :
Among {a,b,c,d,e,f,g,h | i,j,k,l,m,n,o,p}, j appears in the second half. So the first bit of its encoding is 1.
26°C
Mostly cloudy
Search
ENG
IN
08:34
04-05-2023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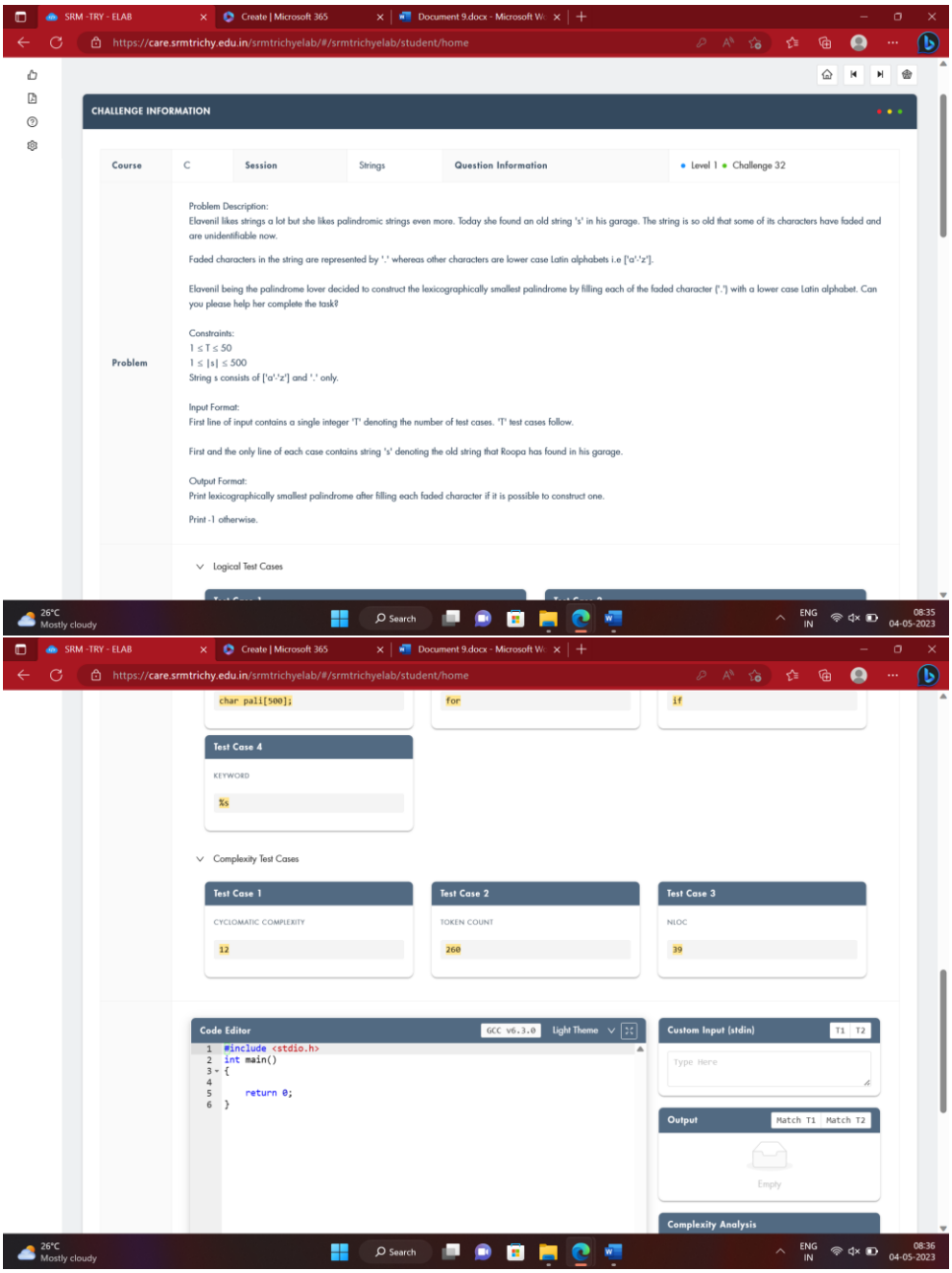
Document 9.docx - Microsoft W
https://care.srmtrichy.edu.in/srmtrichyelab/#/srmtrichyelab/student/home
Mandatory Test Cases
Test Case 1
KEYWORD
%s
Test Case 2
KEYWORD
for
Test Case 3
KEYWORD
if
Complexity Test Cases
Test Case 1
CYCLOMATIC COMPLEXITY
5
Test Case 2
TOKEN COUNT
210
Test Case 3
NLOC
38
Code Editor
GCC v6.3.0
Light Theme
1 #include <stdio.h>
2 int main()
3 {
4
5 return 0;
6 }
Custom Input (stdin)
T1
T2
Type Here
Output
Match T1
Match T2
Empty
Complexity Analysis
26°C
Mostly cloudy
Search
ENG
IN
08:35
04-05-2023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Document 9.docx - Microsoft W
https://care.srmtrichy.edu.in/srmtrichyelab/#/srmtrichyelab/student/home
CHALLENGE INFORMATION
Course
C
Session
Strings
Question Information
Level 1 • Challenge 32
Problem
Problem Description:
Elavenil likes strings a lot but she likes palindromic strings even more. Today she found an old string 's' in his garage. The string is so old that some of its characters have faded and are unidentifiable now.
Faded characters in the string are represented by '.' whereas other characters are lower case Latin alphabets i.e ['a'-'z'].
Elavenil being the palindrome lover decided to construct the lexicographically smallest palindrome by filling each of the faded character ('.') with a lower case Latin alphabet. Can you please help her complete the task?
Constraints:
1 ≤ T ≤ 50
1 ≤ |s| ≤ 500
String s consists of ['a'-'z'] and '.' only.
Input Format:
First line of input contains a single integer 'T' denoting the number of test cases. 'T' test cases follow.
First and the only line of each case contains string 's' denoting the old string that Roopa has found in his garage.
Output Format:
Print lexicographically smallest palindrome after filling each faded character if it is possible to construct one.
Print -1 otherwise.
Logical Test Cases
26°C
Mostly cloudy
Search
ENG
IN
08:35
04-05-2023

SRM -TRY - ELAB
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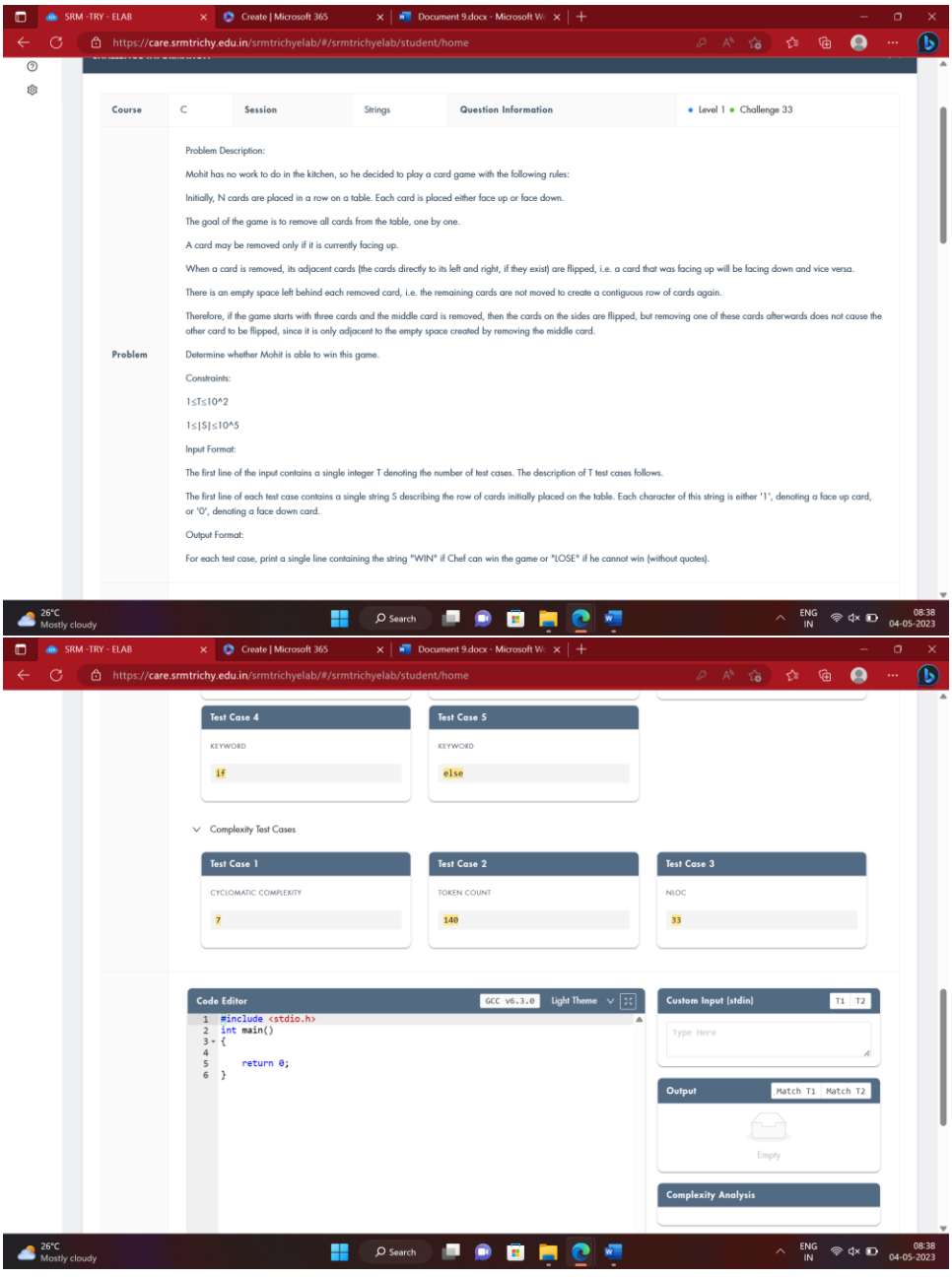
Document 9.docx - Microsoft W
https://care.srmtrichy.edu.in/srmtrichyelab/#/srmtrichyelab/student/home
char pali[500];
for
if
Test Case 4
KEYWORD
%s
Complexity Test Cases
Test Case 1
CYCLOMATIC COMPLEXITY
12
Test Case 2
TOKEN COUNT
260
Test Case 3
NLOC
39
Code Editor
GCC v6.3.0
Light Theme
#include <stdio.h>
int main()
{
return 0;
}
Custom Input (stdin)
T1
T2
Type Here
Output
Match T1
Match T2
Empty
Complexity Analysis
26°C
Mostly cloudy
Search
ENG
IN
08:36
04-05-2023


SRM -TRY - ELAB
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Document 9.docx - Microsoft W
https://care.srmtrichy.edu.in/srmtrichyelab/#/srmtrichyelab/student/home
Course
C
Session
Strings
Question Information
Level 1
Challenge 33
Problem Description:
Mohit has no work to do in the kitchen, so he decided to play a card game with the following rules:
Initially, N cards are placed in a row on a table. Each card is placed either face up or face down.
The goal of the game is to remove all cards from the table, one by one.
A card may be removed only if it is currently facing up.
When a card is removed, its adjacent cards (the cards directly to its left and right, if they exist) are flipped, i.e. a card that was facing up will be facing down and vice versa.
There is an empty space left behind each removed card, i.e. the remaining cards are not moved to create a contiguous row of cards again.
Therefore, if the game starts with three cards and the middle card is removed, then the cards on the sides are flipped, but removing one of these cards afterwards does not cause the other card to be flipped, since it is only adjacent to the empty space created by removing the middle card.
Problem
Determine whether Mohit is able to win this game.
Constraints:
1≤T≤10^2
1≤|S|≤10^5
Input Format:
The first line of the input contains a single integer T denoting the number of test cases. The description of T test cases follows.
The first line of each test case contains a single string S describing the row of cards initially placed on the table. Each character of this string is either '1', denoting a face up card, or '0', denoting a face down card.
Output Format:
For each test case, print a single line containing the string "WIN" if Chef can win the game or "LOSE" if he cannot win (without quotes).
26°C
Mostly cloudy
Search
ENG
IN
08:38
04-05-2023

SRM -TRY - ELAB
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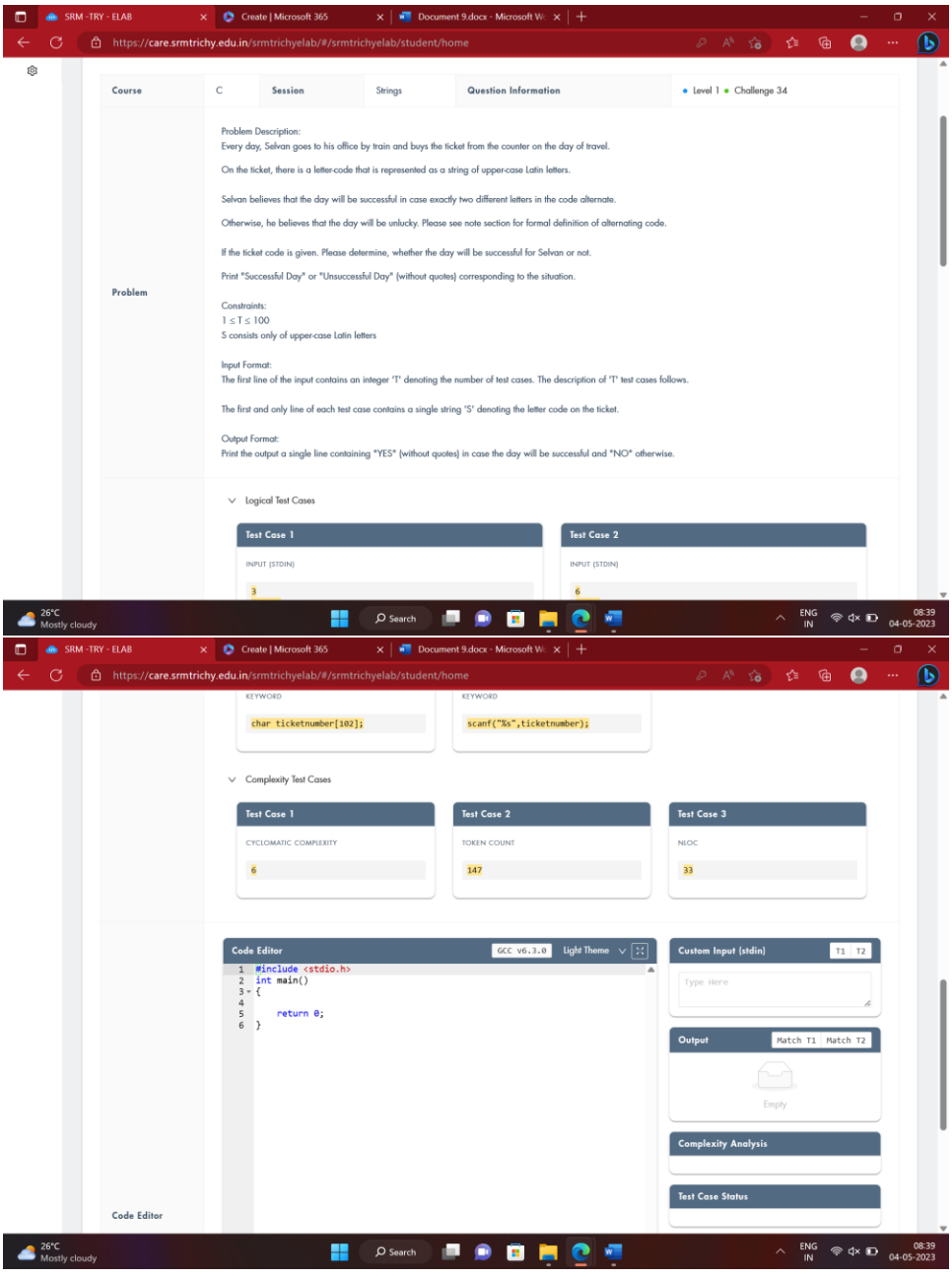
Document 9.docx - Microsoft W
https://care.srmtrichy.edu.in/srmtrichyelab/#/srmtrichyelab/student/home
Test Case 4
KEYWORD
if
Test Case 5
KEYWORD
else
Complexity Test Cases
Test Case 1
CYCLOMATIC COMPLEXITY
7
Test Case 2
TOKEN COUNT
140
Test Case 3
NLOC
33
Code Editor
GCC v6.3.0
Light Theme
#include <stdio.h>
int main()
{
return 0;
}
Custom Input (stdin)
T1
T2
Type Here
Output
Match T1
Match T2
Empty
Complexity Analysis
26°C
Mostly cloudy
Search
ENG
IN
08:38
04-05-2023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Document 9.docx - Microsoft W
https://care.srmtrichy.edu.in/srmtrichyelab/#/srmtrichyelab/student/home
Course
C
Session
Strings
Question Information
Level 1 • Challenge 34
Problem
Problem Description:
Every day, Selvan goes to his office by train and buys the ticket from the counter on the day of travel.
On the ticket, there is a letter-code that is represented as a string of upper-case Latin letters.
Selvan believes that the day will be successful in case exactly two different letters in the code alternate.
Otherwise, he believes that the day will be unlucky. Please see note section for formal definition of alternating code.
If the ticket code is given. Please determine, whether the day will be successful for Selvan or not.
Print "Successful Day" or "Unsuccessful Day" (without quotes) corresponding to the situation.
Constraints:
1 ≤ T ≤ 100
S consists only of upper-case Latin letters
Input Format:
The first line of the input contains an integer 'T' denoting the number of test cases. The description of 'T' test cases follows.
The first and only line of each test case contains a single string 'S' denoting the letter code on the ticket.
Output Format:
Print the output a single line containing "YES" (without quotes) in case the day will be successful and "NO" otherwise.
Logical Test Cases
Test Case 1
INPUT (STDIN)
3
Test Case 2
INPUT (STDIN)
6
26°C
Mostly cloudy
Search
ENG
IN
08:39
04-05-2023

SRM -TRY - ELAB
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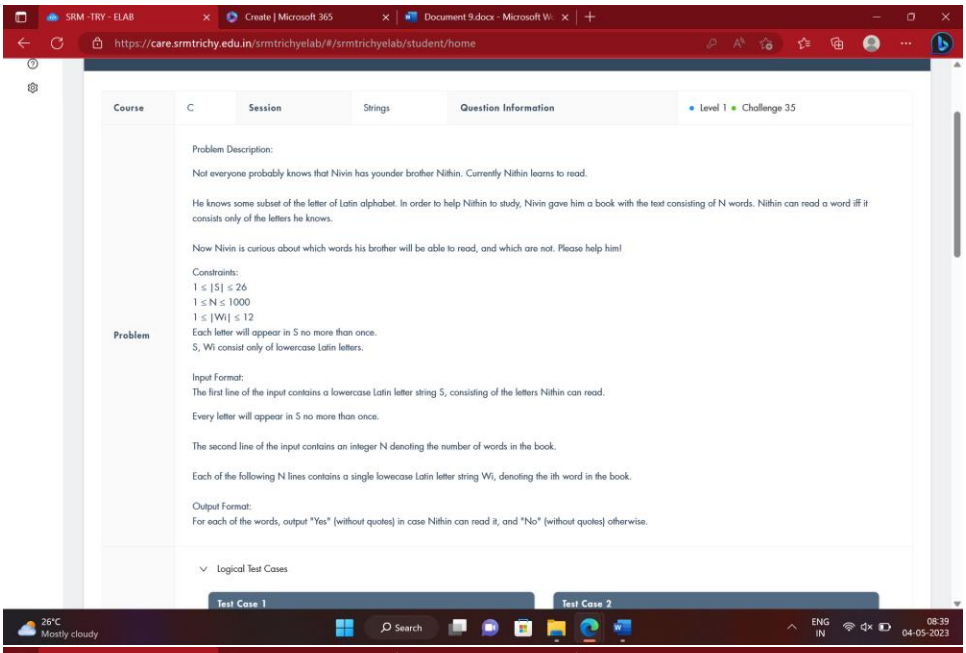
Document 9.docx - Microsoft W
https://care.srmtrichy.edu.in/srmtrichyelab/#/srmtrichyelab/student/home
KEYWORD
char ticketnumber[102];
KEYWORD
scanf("%s",ticketnumber);
Complexity Test Cases
Test Case 1
CYCLOMATIC COMPLEXITY
6
Test Case 2
TOKEN COUNT
147
Test Case 3
NLOC
33
Code Editor
GCC V6.3.0
Light Theme
1 #include <stdio.h>
2 int main()
3 {
4
5 return 0;
6 }
Custom Input (stdin)
T1 T2
Type Here
Output
Match T1 Match T2
Empty
Complexity Analysis
Test Case Status
Code Editor
26°C
Mostly cloudy
Search
ENG
IN
08:39
04-05-2023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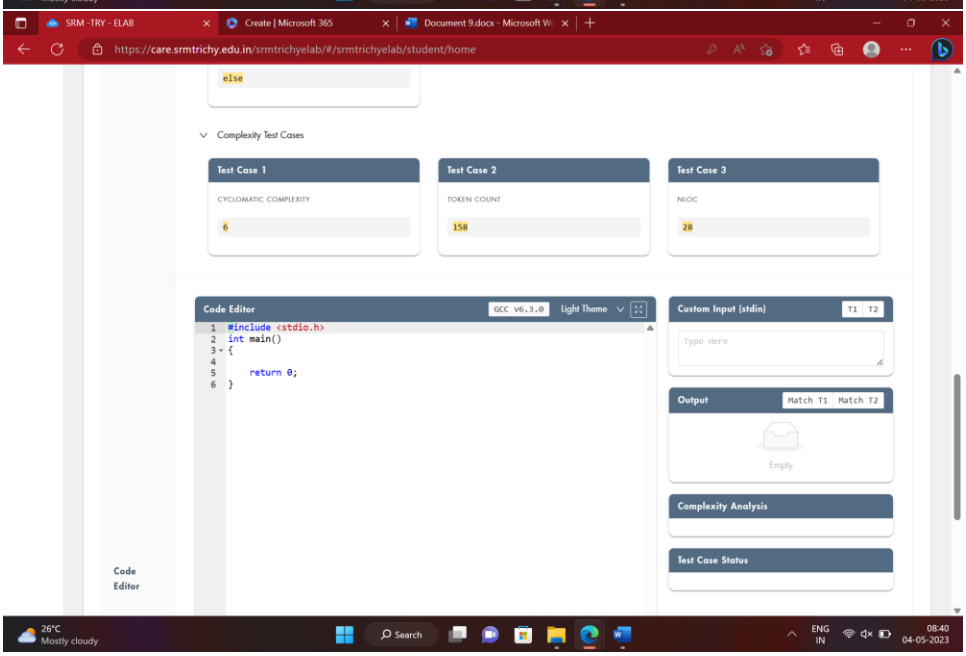
Document 9.docx - Microsoft W
https://care.srmtrichy.edu.in/srmtrichyelab/#/srmtrichyelab/student/home
Course
C
Session
Strings
Question Information
Level 1
Challenge 35
Problem
Problem Description:
Not everyone probably knows that Nivin has younder brother Nithin. Currently Nithin learns to read.
He knows some subset of the letter of Latin alphabet. In order to help Nithin to study, Nivin gave him a book with the text consisting of N words. Nithin can read a word iff it consists only of the letters he knows.
Now Nivin is curious about which words his brother will be able to read, and which are not. Please help him!
Constraints:
1 ≤ |S| ≤ 26
1 ≤ N ≤ 1000
1 ≤ |Wi| ≤ 12
Each letter will appear in S no more than once.
S, Wi consist only of lowercase Latin letters.
Input Format:
The first line of the input contains a lowercase Latin letter string S, consisting of the letters Nithin can read.
Every letter will appear in S no more than once.
The second line of the input contains an integer N denoting the number of words in the book.
Each of the following N lines contains a single lowecase Latin letter string Wi, denoting the ith word in the book.
Output Format:
For each of the words, output "Yes" (without quotes) in case Nithin can read it, and "No" (without quotes) otherwise.
Logical Test Cases
Test Case 1
Test Case 2
26°C
Mostly cloudy
Search
ENG
IN
08:39
04-05-2023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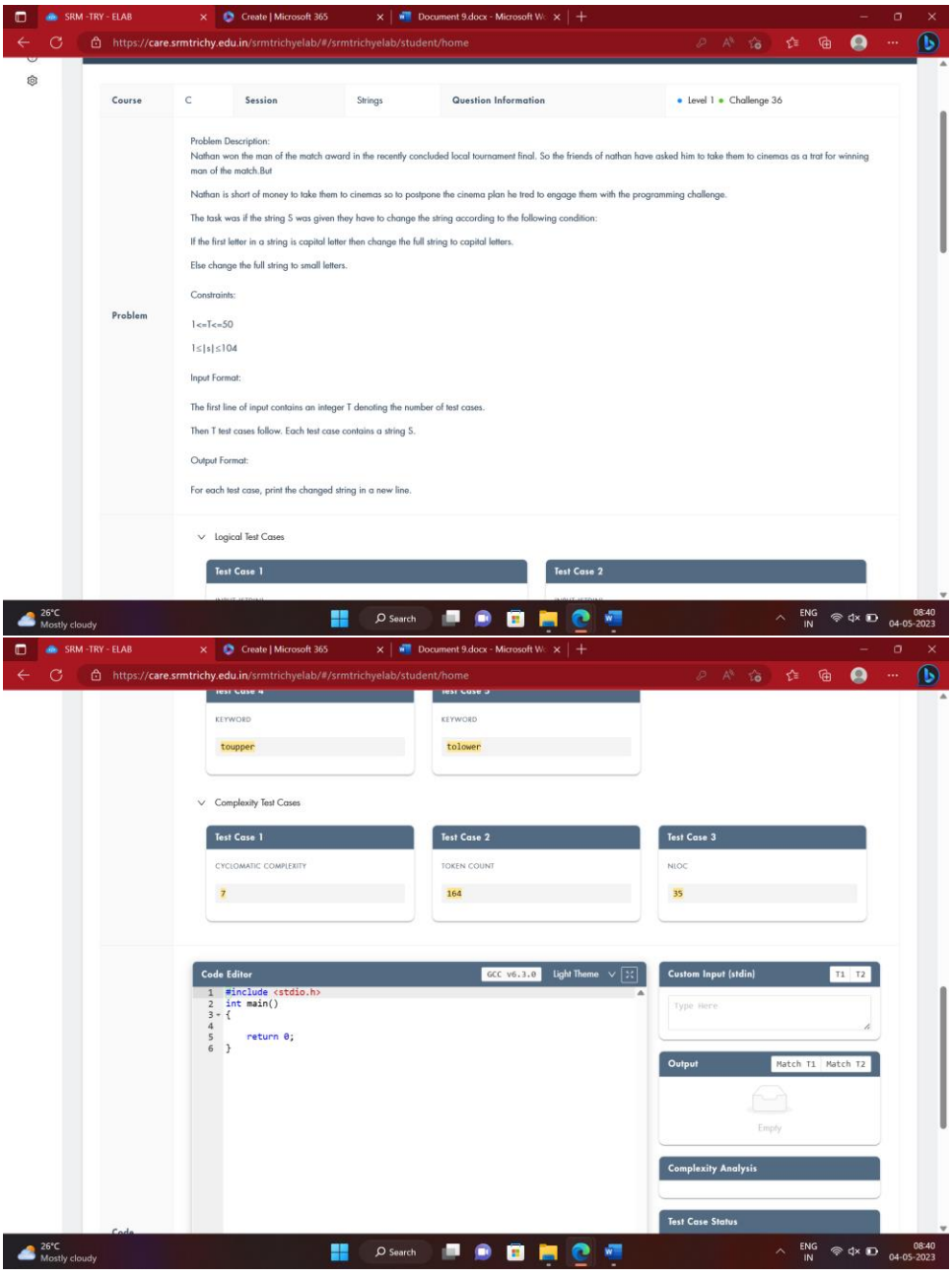
Document 9.docx - Microsoft W
https://care.srmtrichy.edu.in/srmtrichyelab/#/srmtrichyelab/student/home
else
Complexity Test Cases
Test Case 1
CYCLOMATIC COMPLEXITY
6
Test Case 2
TOKEN COUNT
158
Test Case 3
NLOC
28
Code Editor
GCC v6.3.0
Light Theme
#include <stdio.h>
int main()
{
return 0;
}
Custom Input (stdin)
T1
T2
Type Here
Output
Match T1
Match T2
Empty
Complexity Analysis
Test Case Status
Code Editor
26°C
Mostly cloudy
Search
ENG
IN
08:40
04-05-2023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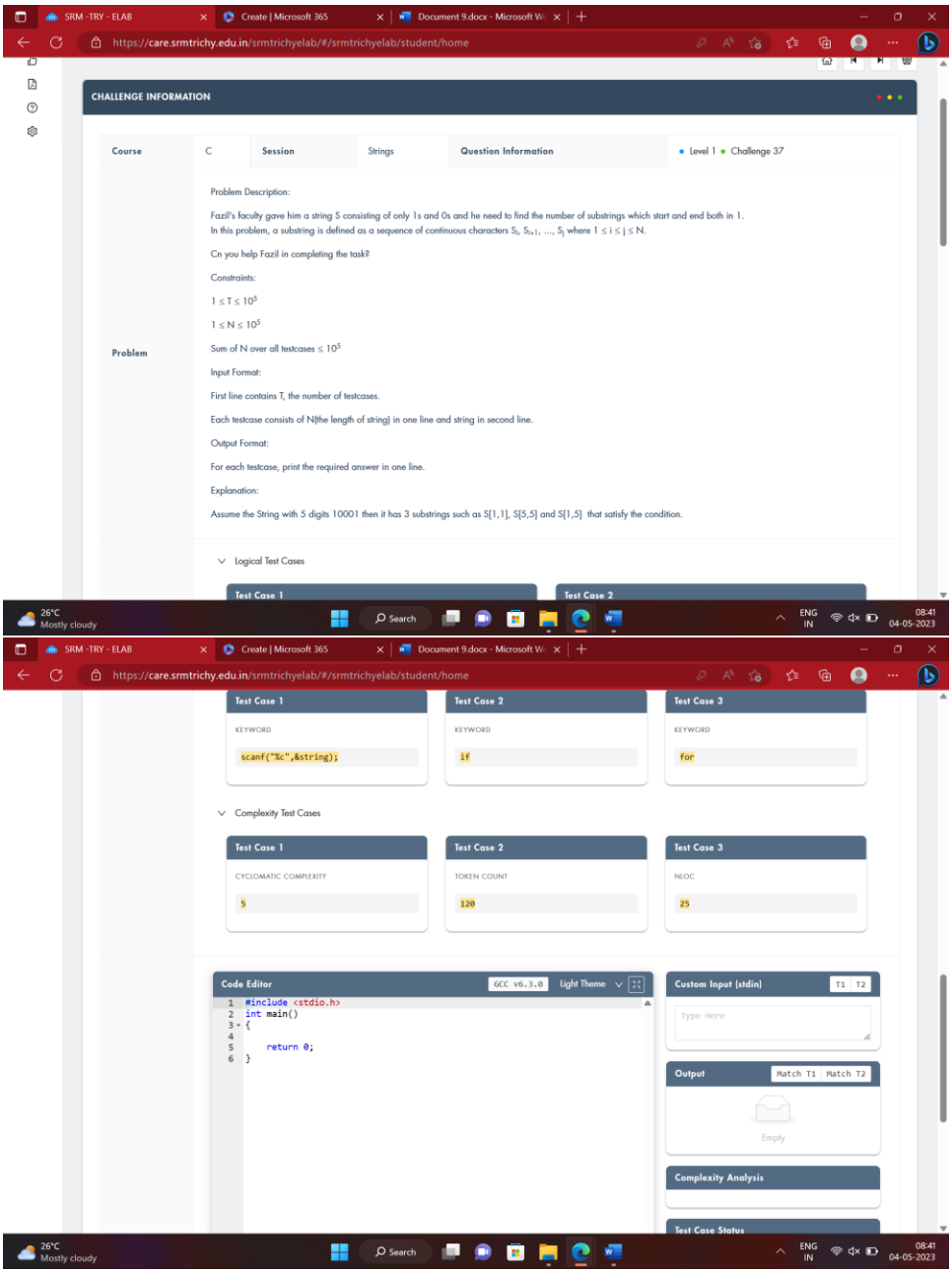
Document 9.docx - Microsoft W
https://care.srmtrichy.edu.in/srmtrichyelab/#/srmtrichyelab/student/home
Course
C
Session
Strings
Question Information
Level 1 Challenge 36
Problem
Problem Description:
Nathan won the man of the match award in the recently concluded local tournament final. So the friends of nathan have asked him to take them to cinemas as a trat for winning man of the match.But
Nathan is short of money to take them to cinemas so to postpone the cinema plan he tred to engage them with the programming challenge.
The task was if the string S was given they have to change the string according to the following condition:
If the first letter in a string is capital letter then change the full string to capital letters.
Else change the full string to small letters.
Constraints:
1<=T<=50
1≤|s|≤104
Input Format:
The first line of input contains an integer T denoting the number of test cases.
Then T test cases follow. Each test case contains a string S.
Output Format:
For each test case, print the changed string in a new line.
Logical Test Cases
Test Case 1
Test Case 2
26°C
Mostly cloudy
Search
ENG
IN
08:40
04-05-2023

SRM -TRY - ELAB
Create | Microsoft 365
Document 9.docx - Microsoft W
https://care.srmtrichy.edu.in/srmtrichyelab/#/srmtrichyelab/student/home
KEYWORD
toupper
KEYWORD
tolower
Complexity Test Cases
Test Case 1
CYCLOMATIC COMPLEXITY
7
Test Case 2
TOKEN COUNT
164
Test Case 3
NLOC
35
Code Editor
GCC v6.3.0
Light Theme
1 #include <stdio.h>
2 int main()
3 {
4
5 return 0;
6 }
Custom Input (stdin)
T1 T2
Type Here
Output
Match T1 Match T2
Empty
Complexity Analysis
Test Case Status
Code
26°C
Mostly cloudy
Search
ENG
IN
08:40
04-05-2023


SRM -TRY - ELAB
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Document 9.docx - Microsoft W
https://care.srmtrichy.edu.in/srmtrichyelab/#/srmtrichyelab/student/home
CHALLENGE INFORMATION
Course
C
Session
Strings
Question Information
Level 1
Challenge 37
Problem
Problem Description:
Fazil's faculty gave him a string S consisting of only 1s and 0s and he need to find the number of substrings which start and end both in 1.
In this problem, a substring is defined as a sequence of continuous characters S_i, S_{i+1}, ..., S_j where $1 \le i \le j \le N$.
Cn you help Fazil in completing the task?
Constraints:
$1 \le T \le 10^5$
$1 \le N \le 10^5$
Sum of N over all testcases $\le 10^5$
Input Format:
First line contains T, the number of testcases.
Each testcase consists of N(the length of string) in one line and string in second line.
Output Format:
For each testcase, print the required answer in one line.
Explanation:
Assume the String with 5 digits 10001 then it has 3 substrings such as S[1,1], S[5,5] and S[1,5] that satisfy the condition.
Logical Test Cases
Test Case 1
Test Case 2
26°C
Mostly cloudy
Search
ENG
IN
08:41
04-05-2023
SRM -TRY - ELAB
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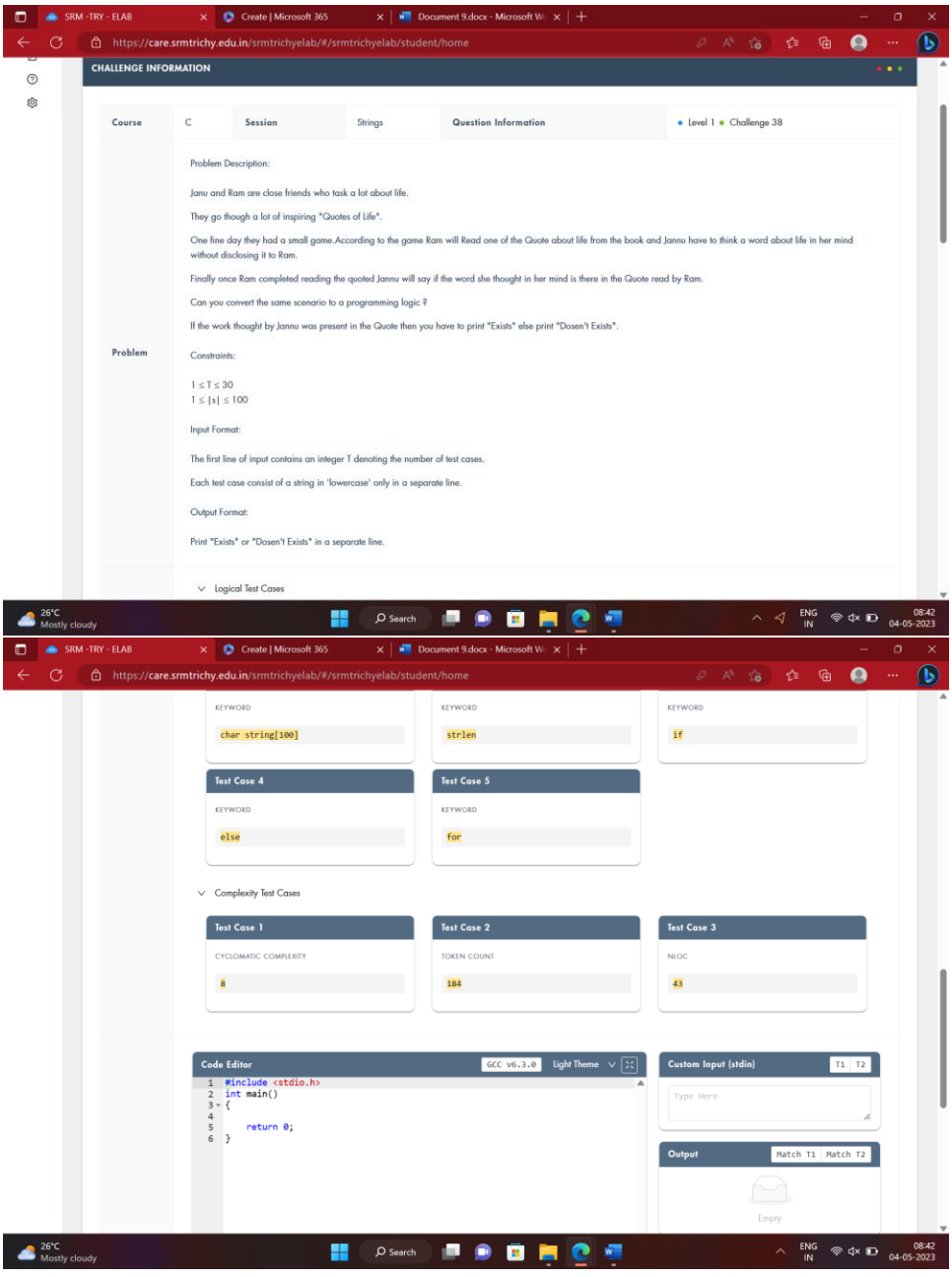
Document 9.docx - Microsoft W
https://care.srmtrichy.edu.in/srmtrichyelab/#/srmtrichyelab/student/home
Test Case 1
KEYWORD
scanf("%c",&string);
Test Case 2
KEYWORD
if
Test Case 3
KEYWORD
for
Complexity Test Cases
Test Case 1
CYCLOMATIC COMPLEXITY
5
Test Case 2
TOKEN COUNT
120
Test Case 3
NLOC
25
Code Editor
GCC v6.3.0
Light Theme
1 #include <stdio.h>
2 int main()
3 {
4
5 return 0;
6 }
Custom Input (stdin)
T1 T2
Type Here
Output
Match T1 Match T2
Empty
Complexity Analysis
Test Case Status
26°C
Mostly cloudy
Search
ENG
IN
08:41
04-05-2023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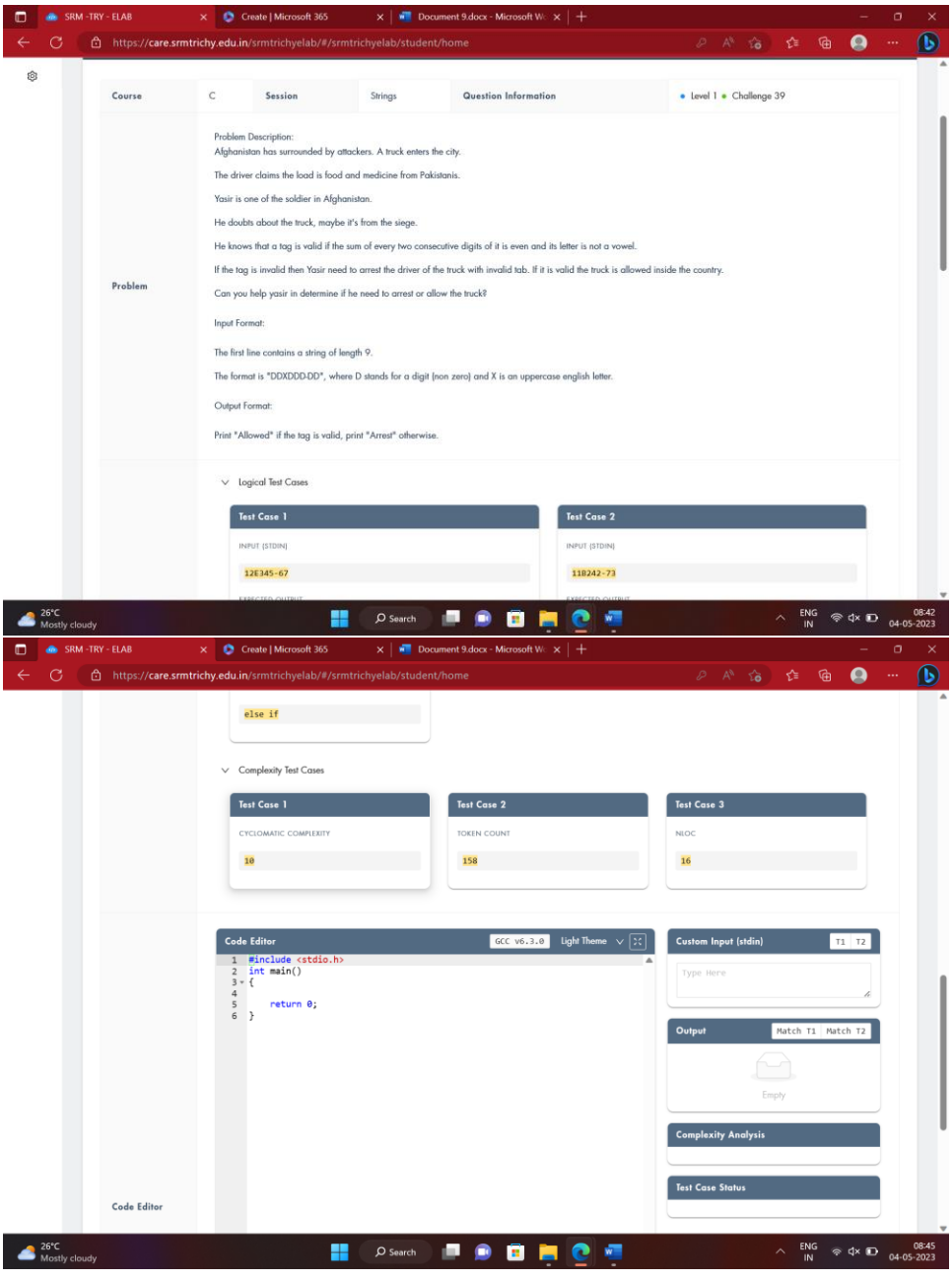
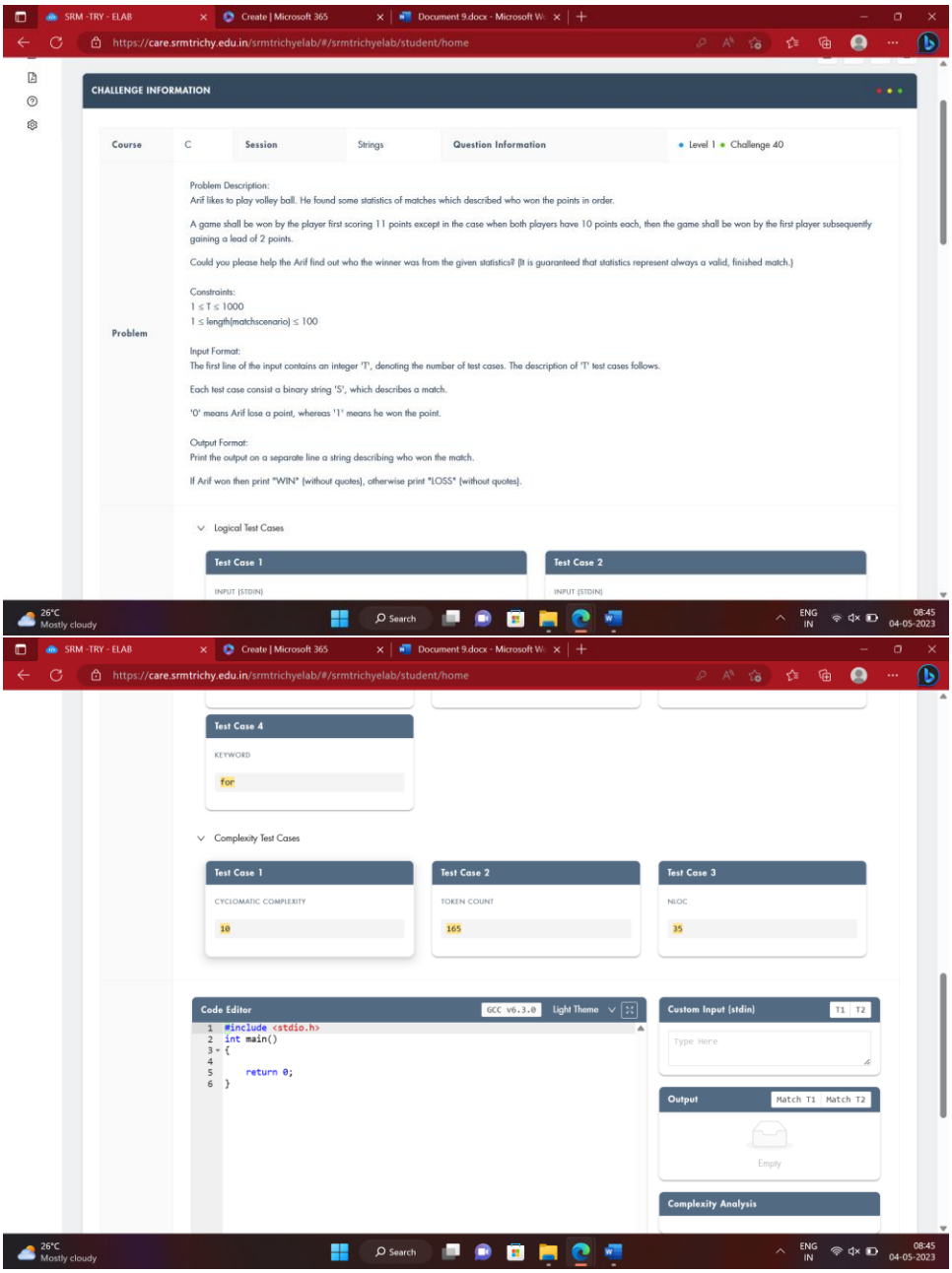
Document 9.docx - Microsoft W
https://care.srmtrichy.edu.in/srmtrichyelab/#/srmtrichyelab/student/home
CHALLENGE INFORMATION
Course
C
Session
Strings
Question Information
Level 1
Challenge 38
Problem
Problem Description:
Janu and Ram are close friends who task a lot about life.
They go though a lot of inspiring "Quotes of Life".
One fine day they had a small game.According to the game Ram will Read one of the Quote about life from the book and Jannu have to think a word about life in her mind without disclosing it to Ram.
Finally once Ram completed reading the quoted Jannu will say if the word she thought in her mind is there in the Quote read by Ram.
Can you convert the same scenario to a programming logic ?
If the work thought by Jannu was present in the Quote then you have to print "Exists" else print "Dosen't Exists".
Constraints:
1 ≤ T ≤ 30
1 ≤ |s| ≤ 100
Input Format:
The first line of input contains an integer T denoting the number of test cases.
Each test case consist of a string in 'lowercase' only in a separate line.
Output Format:
Print "Exists" or "Dosen't Exists" in a separate line.
Logical Test Cases
26°C
Mostly cloudy
Search
ENG
IN
08:42
04-05-2023

SRM -TRY - ELAB
Create | Microsoft 365
Document 9.docx - Microsoft W
https://care.srmtrichy.edu.in/srmtrichyelab/#/srmtrichyelab/student/home
KEYWORD
char string[100]
KEYWORD
strlen
KEYWORD
if
Test Case 4
KEYWORD
else
Test Case 5
KEYWORD
for
Complexity Test Cases
Test Case 1
CYCLOMATIC COMPLEXITY
8
Test Case 2
TOKEN COUNT
184
Test Case 3
NLOC
43
Code Editor
GCC v6.3.0
Light Theme
#include <stdio.h>
int main()
{
return 0;
}
Custom Input (stdin)
T1
T2
Type Here
Output
Match T1
Match T2
Empty
26°C
Mostly cloudy
Search
ENG
IN
08:42
04-05-2023


SRM -TRY - ELAB
Create | Microsoft 365
Document 9.docx - Microsoft W
https://care.srmtrichy.edu.in/srmtrichyelab/#/srmtrichyelab/student/home
Course
C
Session
Strings
Question Information
Level 1 Challenge 39
Problem
Problem Description:
Afghanistan has surrounded by attackers. A truck enters the city.
The driver claims the load is food and medicine from Pakistanis.
Yasir is one of the soldier in Afghanistan.
He doubts about the truck, maybe it's from the siege.
He knows that a tag is valid if the sum of every two consecutive digits of it is even and its letter is not a vowel.
If the tag is invalid then Yasir need to arrest the driver of the truck with invalid tab. If it is valid the truck is allowed inside the country.
Can you help yasir in determine if he need to arrest or allow the truck?
Input Format:
The first line contains a string of length 9.
The format is "DDXDDD-DD", where D stands for a digit (non zero) and X is an uppercase english letter.
Output Format:
Print "Allowed" if the tag is valid, print "Arrest" otherwise.
Logical Test Cases
Test Case 1
INPUT (STDIN)
12E345-67
Test Case 2
INPUT (STDIN)
11B242-73
26°C
Mostly cloudy
Search
ENG
IN
08:42
04-05-2023

SRM -TRY - ELAB
Create | Microsoft 365
Document 9.docx - Microsoft W
https://care.srmtrichy.edu.in/srmtrichyelab/#/srmtrichyelab/student/home
else if
Complexity Test Cases
Test Case 1
CYCLOMATIC COMPLEXITY
10
Test Case 2
TOKEN COUNT
158
Test Case 3
NLOC
16
Code Editor
GCC v6.3.0
Light Theme
#include <stdio.h>
int main()
{
return 0;
}
Custom Input (stdin)
T1 T2
Type Here
Output
Match T1 Match T2
Empty
Complexity Analysis
Test Case Status
Code Editor
26°C
Mostly cloudy
Search
ENG
IN
08:45
04-05-2023


SRM -TRY - ELAB
Create | Microsoft 365
Document 9.docx - Microsoft W
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CHALLENGE INFORMATION
Course
C
Session
Strings
Question Information
Level 1
Challenge 40
Problem
Problem Description:
Arif likes to play volley ball. He found some statistics of matches which described who won the points in order.
A game shall be won by the player first scoring 11 points except in the case when both players have 10 points each, then the game shall be won by the first player subsequently gaining a lead of 2 points.
Could you please help the Arif find out who the winner was from the given statistics? (It is guaranteed that statistics represent always a valid, finished match.)
Constraints:
1 ≤ T ≤ 1000
1 ≤ length(matchscenario) ≤ 100
Input Format:
The first line of the input contains an integer 'T', denoting the number of test cases. The description of 'T' test cases follows.
Each test case consist a binary string 'S', which describes a match.
'0' means Arif lose a point, whereas '1' means he won the point.
Output Format:
Print the output on a separate line a string describing who won the match.
If Arif won then print "WIN" (without quotes), otherwise print "LOSS" (without quotes).
Logical Test Cases
Test Case 1
INPUT (STDIN)
Test Case 2
INPUT (STDIN)
26°C
Mostly cloudy
Search
ENG
IN
08:45
04-05-2023

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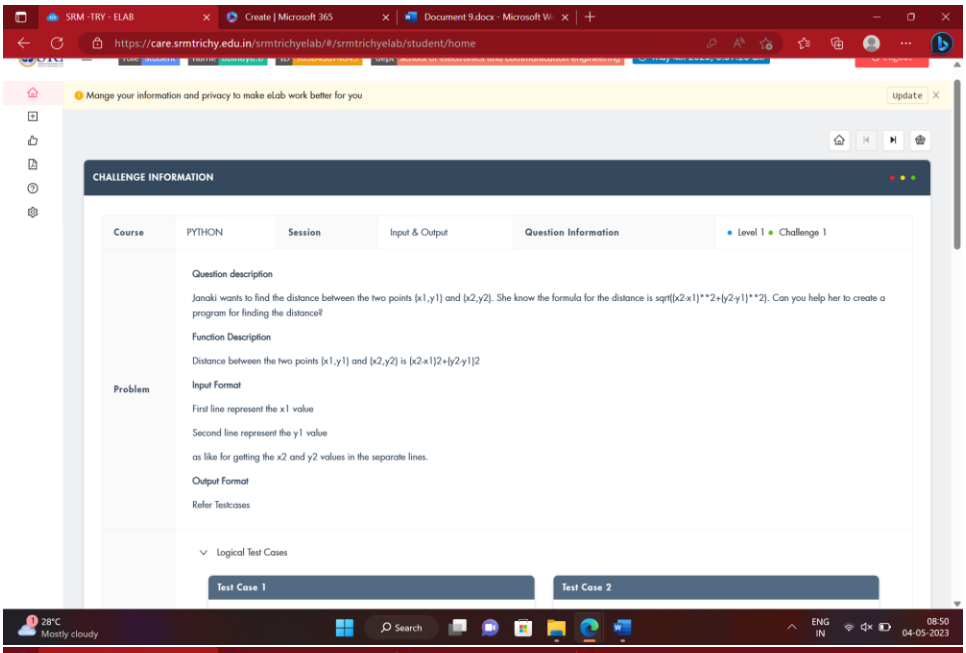
Test Case 4
KEYWORD
for
Complexity Test Cases
Test Case 1
CYCLOMATIC COMPLEXITY
10
Test Case 2
TOKEN COUNT
165
Test Case 3
NLOC
35
Code Editor
GCC v6.3.0
Light Theme
1 #include <stdio.h>
2 int main()
3 {
4
5 return 0;
6 }
Custom Input (stdin)
T1
T2
Type Here
Output
Match T1
Match T2
Empty
Complexity Analysis
26°C
Mostly cloudy
Search
ENG
IN
08:45
04-05-2023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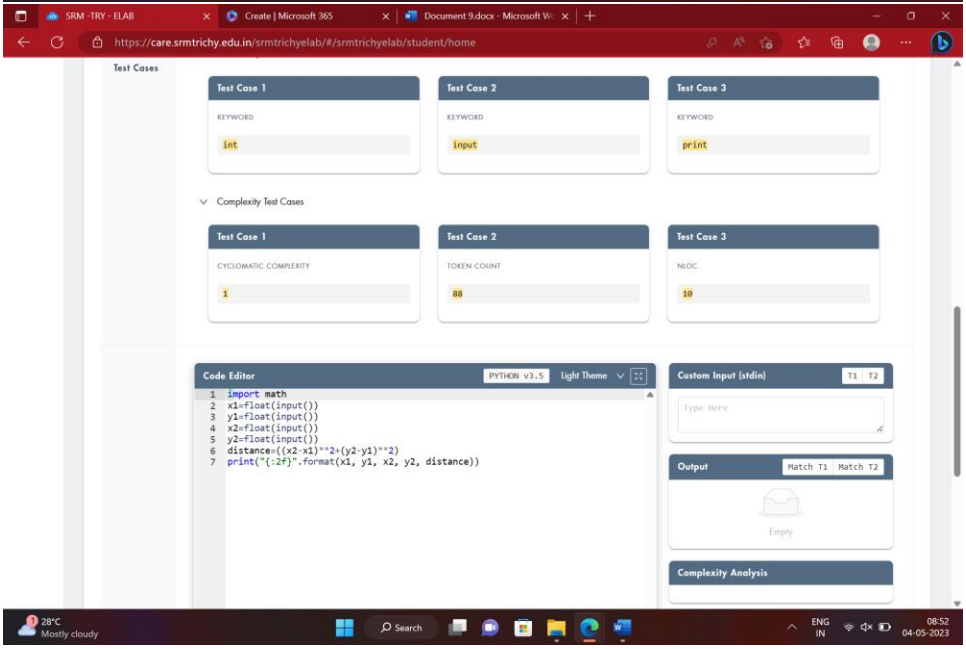
CHALLENGE INFORMATION
Course
PYTHON
Session
Input & Output
Question Information
Level 1 Challenge 1
Problem
Question description
Janaki wants to find the distance between the two points (x1,y1) and (x2,y2). She know the formula for the distance is sqrt((x2-x1)**2+(y2-y1)**2). Can you help her to create a program for finding the distance?
Function Description
Distance between the two points (x1,y1) and (x2,y2) is (x2-x1)2+(y2-y1)2
Input Format
First line represent the x1 value
Second line represent the y1 value
as like for getting the x2 and y2 values in the separate lines.
Output Format
Refer Testcases
Logical Test Cases
Test Case 1
Test Case 2
28°C
Mostly cloudy
Search
ENG
IN
08:50
04-05-2023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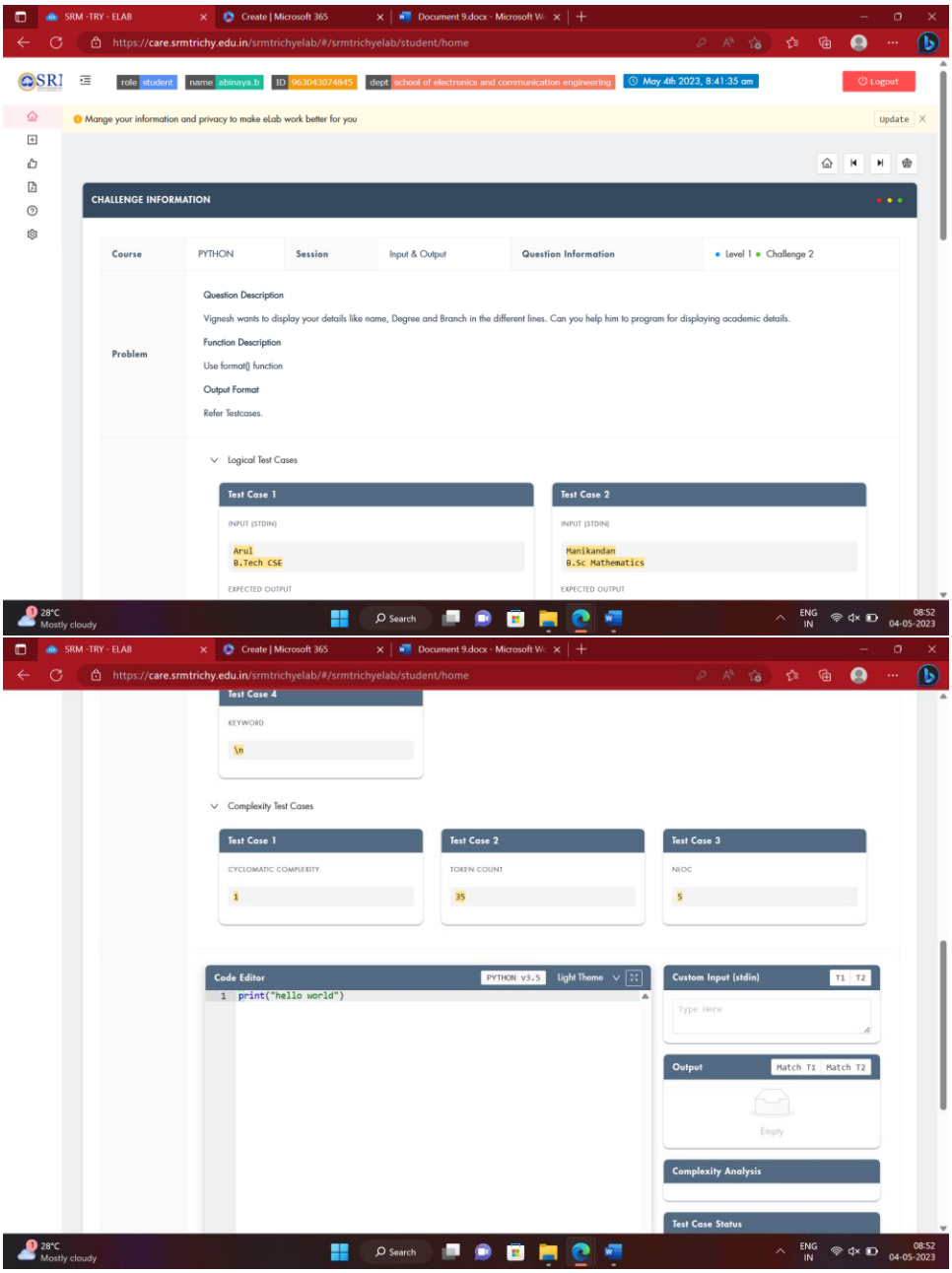
Test Cases
Test Case 1
KEYWORD
int
Test Case 2
KEYWORD
input
Test Case 3
KEYWORD
print
Complexity Test Cases
Test Case 1
CYCLOMATIC COMPLEXITY
1
Test Case 2
TOKEN COUNT
88
Test Case 3
NLOC
10
Code Editor
PYTHON v3.5
Light Theme
1 import math
2 x1=float(input())
3 y1=float(input())
4 x2=float(input())
5 y2=float(input())
6 distance=((x2-x1)**2+(y2-y1)**2)
7 print("{:2f}".format(x1, y1, x2, y2, distance))
Custom Input (stdin)
T1 T2
Type Here
Output
Match T1 Match T2
Empty
Complexity Analysis
28°C
Mostly cloudy
Search
ENG
IN
08:52
04-05-2023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https://care.srmtrichy.edu.in/srmtrichyelab/#/srmtrichyelab/student/home
role student
name abinaya.b
ID 963043074845
dept school of electronics and communication engineering
May 4th 2023, 8:41:35 am
Logout
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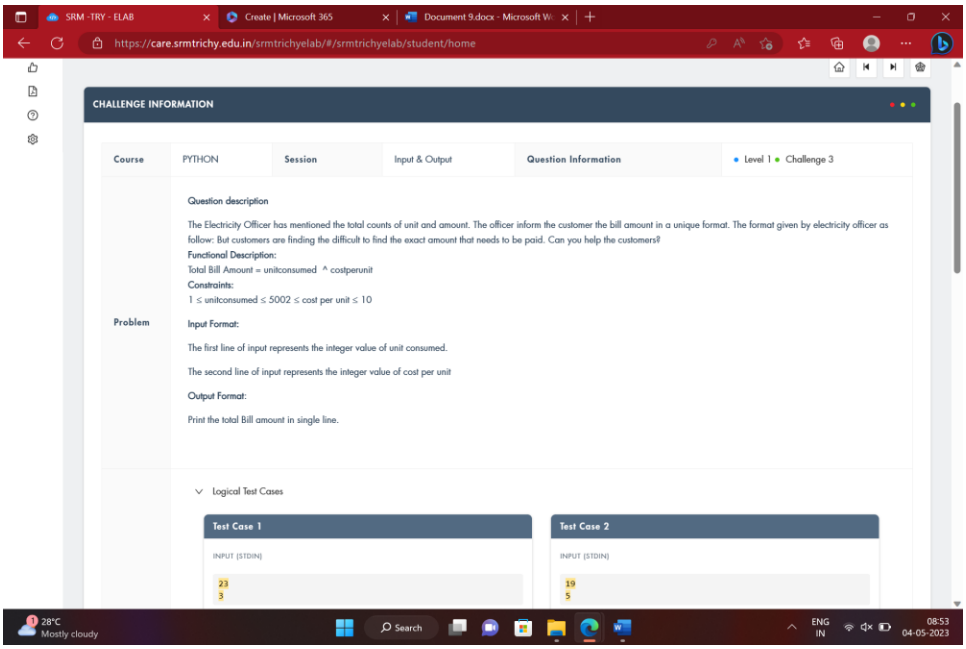
Update
CHALLENGE INFORMATION
Course
PYTHON
Session
Input & Output
Question Information
Level 1 • Challenge 2
Problem
Question Description
Vignesh wants to display your details like name, Degree and Branch in the different lines. Can you help him to program for displaying academic details.
Function Description
Use format() function
Output Format
Refer Testcases.
Logical Test Cases
Test Case 1
INPUT (STDIN)
Arul
B.Tech CSE
EXPECTED OUTPUT
Test Case 2
INPUT (STDIN)
Manikandan
B.Sc Mathematics
EXPECTED OUTPUT
28°C
Mostly cloudy
Search
ENG
IN
08:52
04-05-2023
Test Case 4
KEYWORD
\n
Complexity Test Cases
Test Case 1
CYCLOMATIC COMPLEXITY
1
Test Case 2
TOKEN COUNT
35
Test Case 3
NLOC
5
Code Editor
PYTHON v3.5
Light Theme
1 print("hello world")
Custom Input (stdin)
T1 T2
Type Here
Output
Match T1 Match T2
Empty
Complexity Analysis
Test Case Status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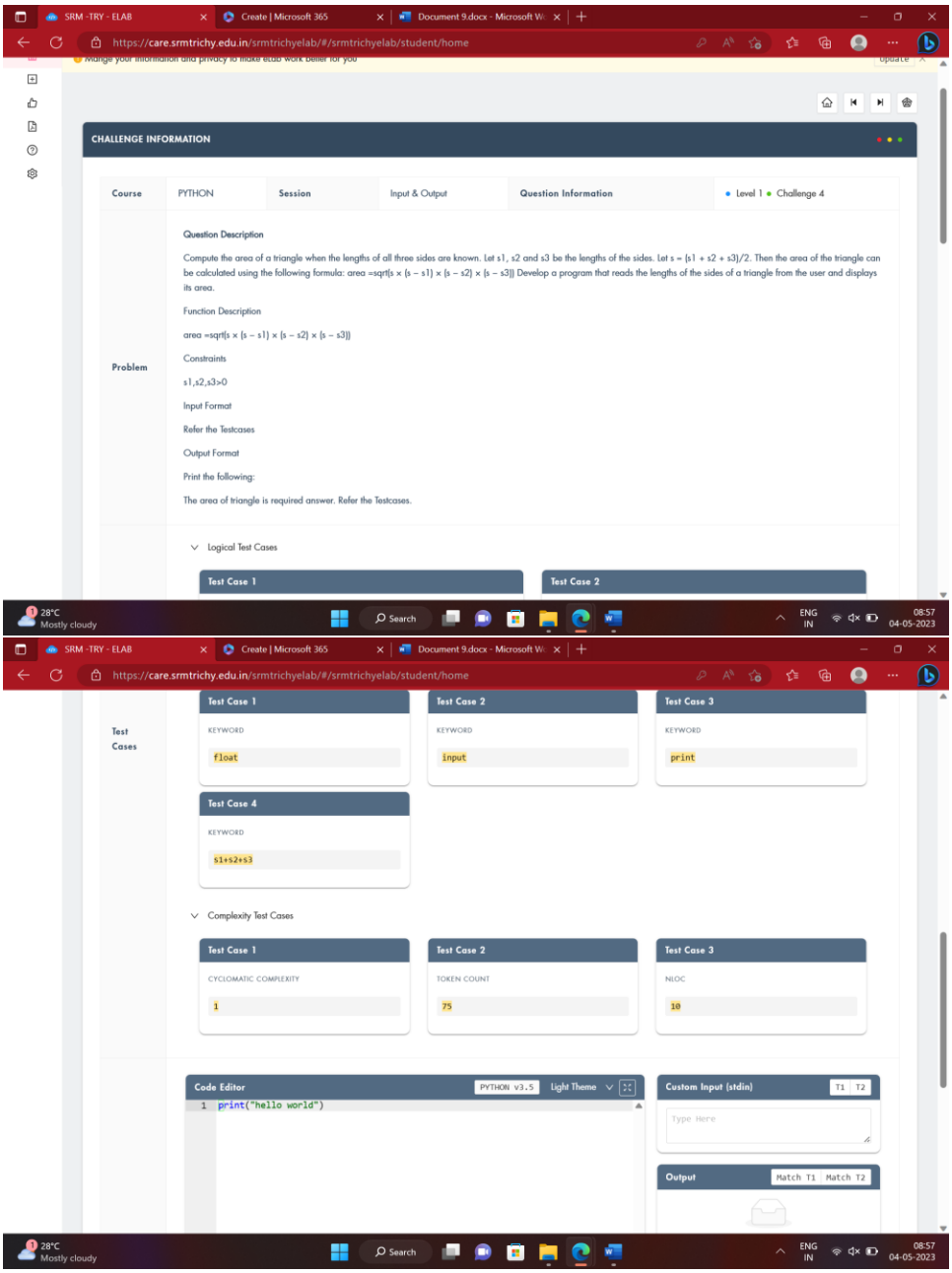
CHALLENGE INFORMATION
Course
PYTHON
Session
Input & Output
Question Information
Level 1 • Challenge 3
Problem
Question description
The Electricity Officer has mentioned the total counts of unit and amount. The officer inform the customer the bill amount in a unique format. The format given by electricity officer as follow: But customers are finding the difficult to find the exact amount that needs to be paid. Can you help the customers?
Functional Description:
Total Bill Amount = unitconsumed ^ costperunit
Constraints:
1 ≤ unitconsumed ≤ 5002 ≤ cost per unit ≤ 10
Input Format:
The first line of input represents the integer value of unit consumed.
The second line of input represents the integer value of cost per unit
Output Format:
Print the total Bill amount in single line.
Logical Test Cases
Test Case 1
INPUT (STDIN)
23
3
Test Case 2
INPUT (STDIN)
19
5
28°C
Mostly cloudy
Search
ENG
IN
08:53
04-05-2023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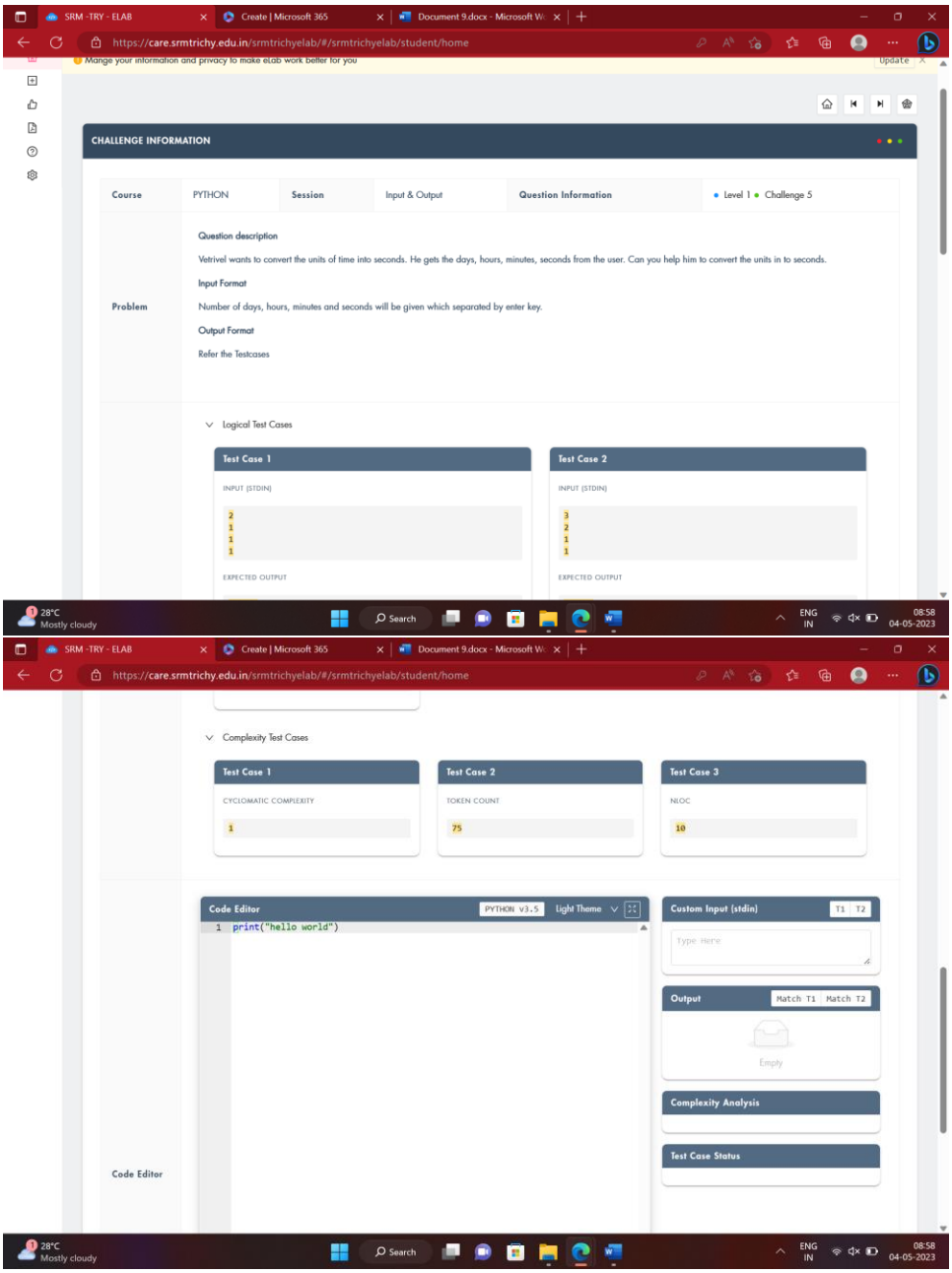
CHALLENGE INFORMATION
Course
PYTHON
Session
Input & Output
Question Information
Level 1 Challenge 4
Question Description
Compute the area of a triangle when the lengths of all three sides are known. Let s1, s2 and s3 be the lengths of the sides. Let s = (s1 + s2 + s3)/2. Then the area of the triangle can be calculated using the following formula: area =sqrt(s × (s − s1) × (s − s2) × (s − s3)) Develop a program that reads the lengths of the sides of a triangle from the user and displays its area.
Function Description
area =sqrt(s × (s − s1) × (s − s2) × (s − s3))
Problem
Constraints
s1,s2,s3>0
Input Format
Refer the Testcases
Output Format
Print the following:
The area of triangle is required answer. Refer the Testcases.
Logical Test Cases
Test Case 1
Test Case 2
Test Case 3
KEYWORD
float
input
print
Test Case 4
s1+s2+s3
Test Cases
Complexity Test Cases
CYCLOMATIC COMPLEXITY
1
TOKEN COUNT
75
NLOC
10
Code Editor
PYTHON v3.5
Light Theme
print("hello world")
Custom Input (stdin)
T1 T2
Type Here
Output
Match T1 Match T2
28°C
Mostly cloudy
Search
ENG
IN
08:57
04-05-2023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CHALLENGE INFORMATION
Course
PYTHON
Session
Input & Output
Question Information
Level 1 • Challenge 5
Problem
Question description
Vetrivel wants to convert the units of time into seconds. He gets the days, hours, minutes, seconds from the user. Can you help him to convert the units in to seconds.
Input Format
Number of days, hours, minutes and seconds will be given which separated by enter key.
Output Format
Refer the Testcases
Logical Test Cases
Test Case 1
INPUT (STDIN)
2
1
1
1
EXPECTED OUTPUT
Test Case 2
INPUT (STDIN)
3
2
1
1
EXPECTED OUTPUT
28°C
Mostly cloudy
Search
ENG
IN
08:58
04-05-2023
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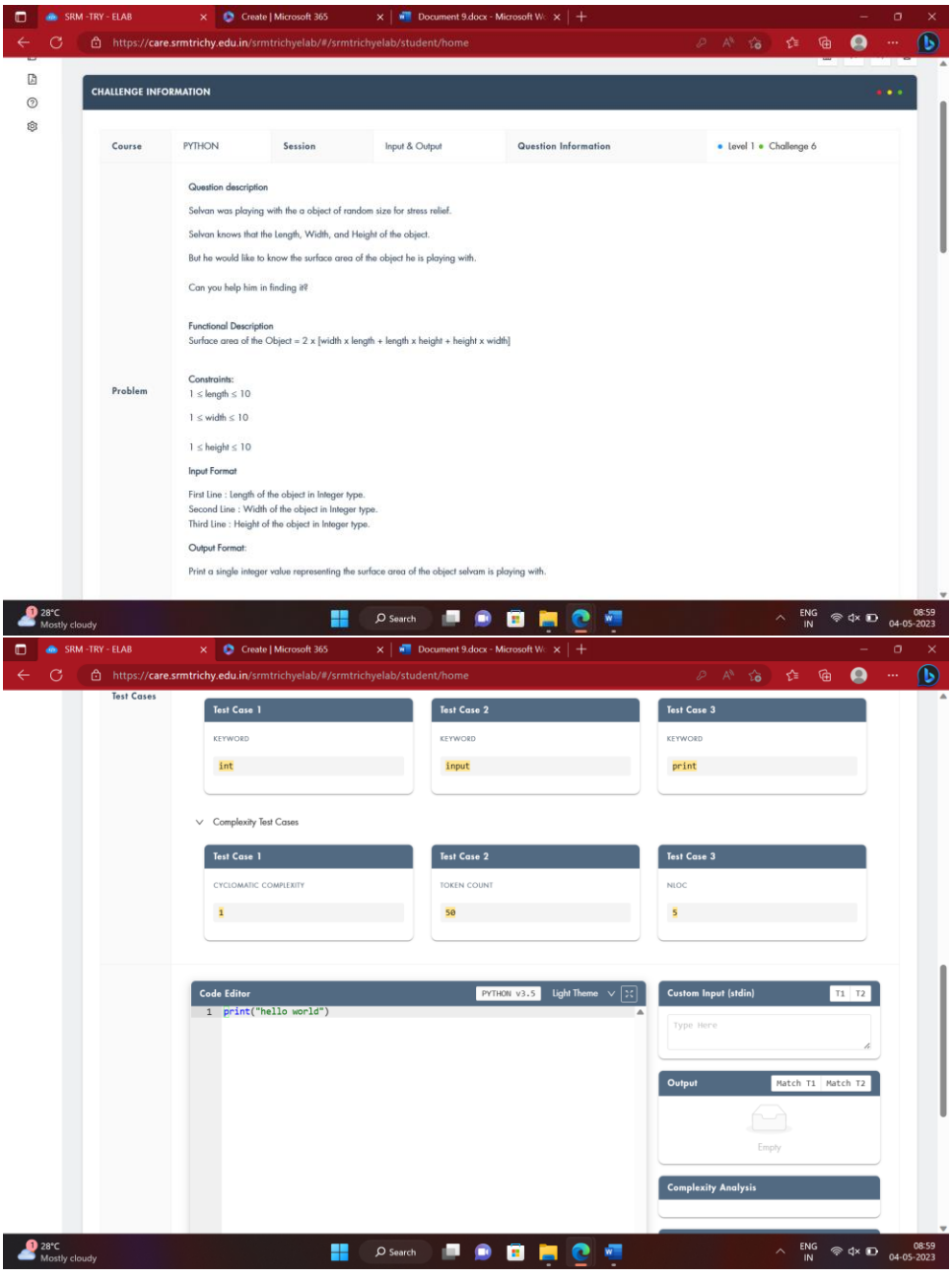
Complexity Test Cases
Test Case 1
CYCLOMATIC COMPLEXITY
1
Test Case 2
TOKEN COUNT
75
Test Case 3
NLOC
10
Code Editor
PYTHON v3.5
Light Theme
1 print("hello world")
Custom Input (stdin)
T1
T2
Type Here
Output
Match T1
Match T2
Empty
Complexity Analysis
Test Case Status
Code Editor
28°C
Mostly cloudy
Search
ENG
IN
08:58
04-05-2023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CHALLENGE INFORMATION
Course
PYTHON
Session
Input & Output
Question Information
Level 1 • Challenge 6
Problem
Question description
Selvan was playing with the a object of random size for stress relief.
Selvan knows that the Length, Width, and Height of the object.
But he would like to know the surface area of the object he is playing with.
Can you help him in finding it?
Functional Description
Surface area of the Object = 2 x [width x length + length x height + height x width]
Constraints:
1 ≤ length ≤ 10
1 ≤ width ≤ 10
1 ≤ height ≤ 10
Input Format
First Line : Length of the object in Integer type.
Second Line : Width of the object in Integer type.
Third Line : Height of the object in Integer type.
Output Format:
Print a single integer value representing the surface area of the object selvam is playing with.
28°C
Mostly cloudy
Search
ENG
IN
08:59
04-05-2023
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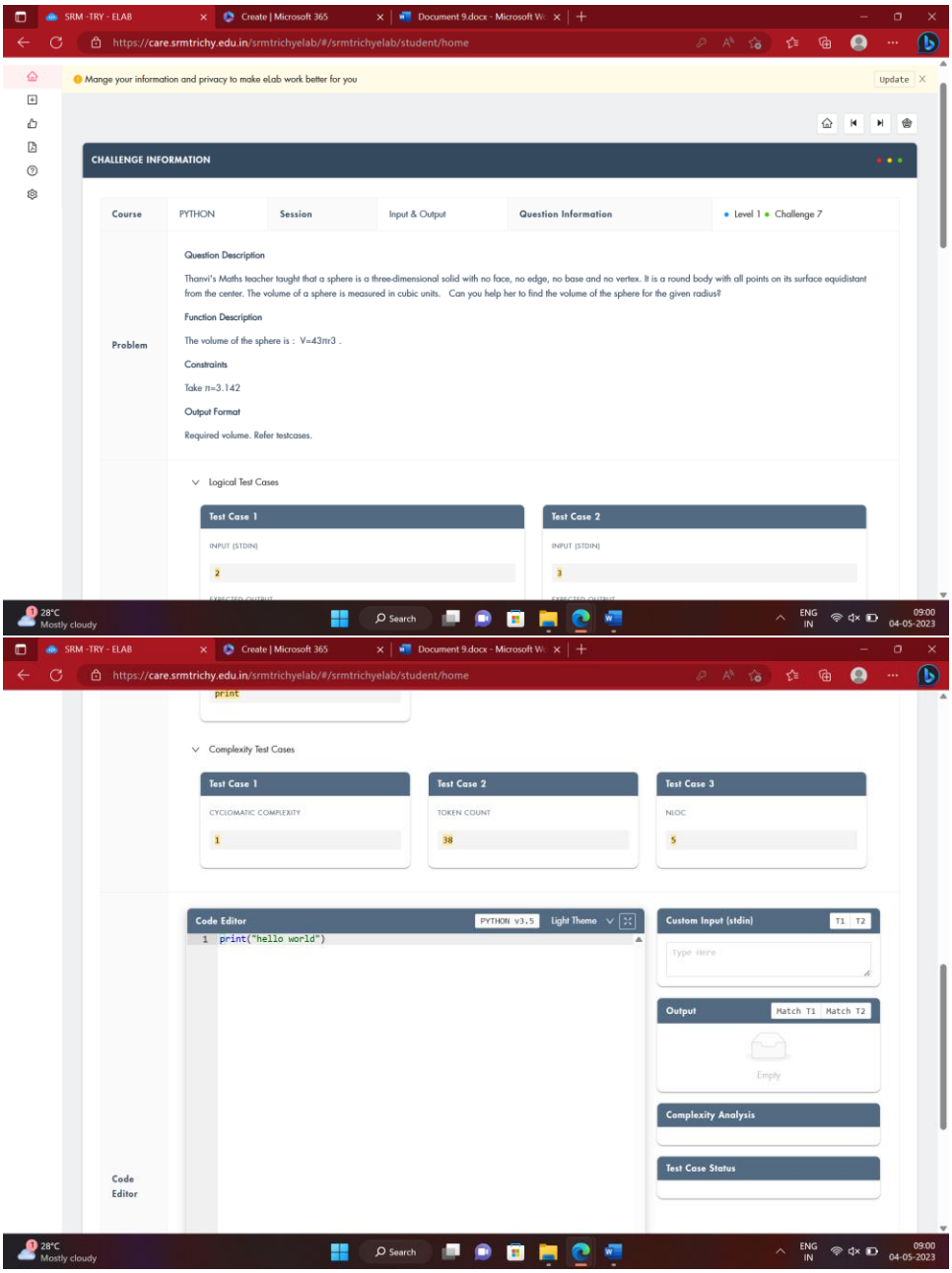
Test Cases
Test Case 1
KEYWORD
int
Test Case 2
KEYWORD
input
Test Case 3
KEYWORD
print
Complexity Test Cases
Test Case 1
CYCLOMATIC COMPLEXITY
1
Test Case 2
TOKEN COUNT
50
Test Case 3
NLOC
5
Code Editor
PYTHON v3.5
Light Theme
1 print("hello world")
Custom Input (stdin)
T1
T2
Type Here
Output
Match T1
Match T2
Empty
Complexity Analysis
28°C
Mostly cloudy
Search
ENG
IN
08:59
04-05-2023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CHALLENGE INFORMATION
Course
PYTHON
Session
Input & Output
Question Information
Level 1 • Challenge 7
Problem
Question Description
Thanvi's Maths teacher taught that a sphere is a three-dimensional solid with no face, no edge, no base and no vertex. It is a round body with all points on its surface equidistant from the center. The volume of a sphere is measured in cubic units. Can you help her to find the volume of the sphere for the given radius?
Function Description
The volume of the sphere is : V=43πr3 .
Constraints
Take π=3.142
Output Format
Required volume. Refer testcases.
Logical Test Cases
Test Case 1
INPUT (STDIN)
2
Test Case 2
INPUT (STDIN)
3
28°C
Mostly cloudy
Search
ENG
IN
09:00
04-05-2023

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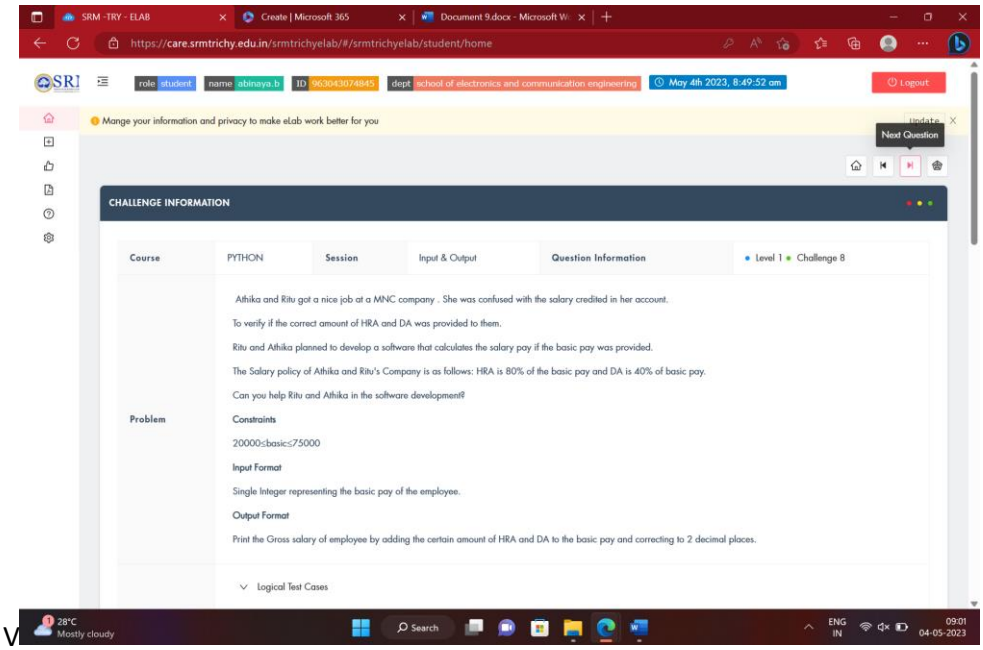
print
Complexity Test Cases
Test Case 1
CYCLOMATIC COMPLEXITY
1
Test Case 2
TOKEN COUNT
38
Test Case 3
NLOC
5
Code Editor
PYTHON v3.5
Light Theme
1 print("hello world")
Custom Input (stdin)
T1 T2
Type Here
Output
Match T1 Match T2
Empty
Complexity Analysis
Test Case Status
Code Editor
28°C
Mostly cloudy
Search
ENG
IN
09:00
04-05-2023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https://care.srmtrichy.edu.in/srmtrichyelab/#/srmtrichyelab/student/home
role student
name abinaya.b
ID 9630430748 45
dept school of electronics and communication engineering
May 4th 2023, 8:49:52 am
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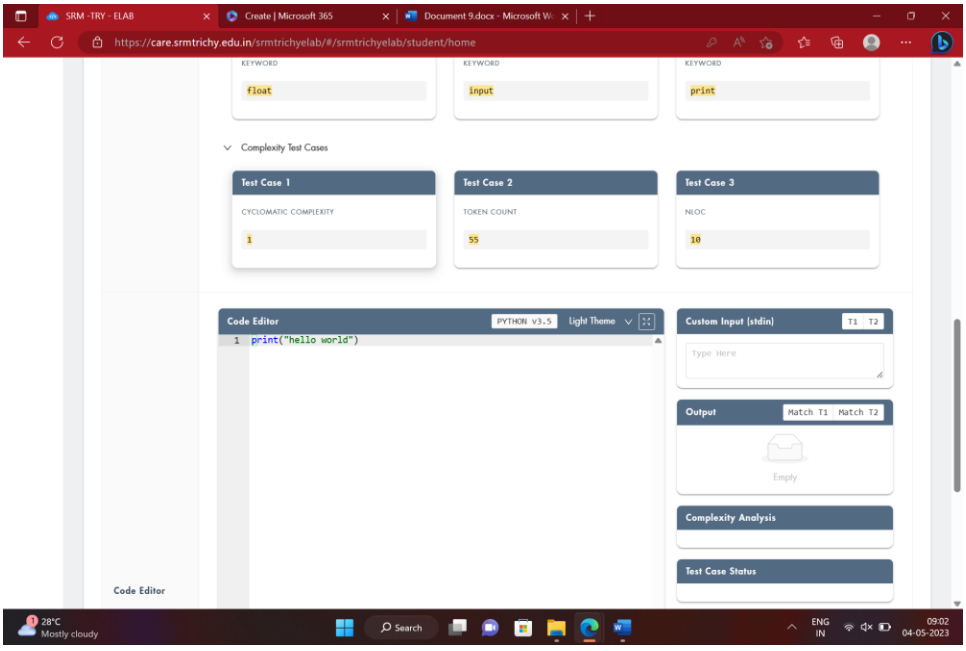
Next Question
CHALLENGE INFORMATION
Course
PYTHON
Session
Input & Output
Question Information
Level 1 Challenge 8
Athika and Ritu got a nice job at a MNC company . She was confused with the salary credited in her account.
To verify if the correct amount of HRA and DA was provided to them.
Ritu and Athika planned to develop a software that calculates the salary pay if the basic pay was provided.
The Salary policy of Athika and Ritu's Company is as follows: HRA is 80% of the basic pay and DA is 40% of basic pay.
Can you help Ritu and Athika in the software development?
Problem
Constraints
20000≤basic≤75000
Input Format
Single Integer representing the basic pay of the employee.
Output Format
Print the Gross salary of employee by adding the certain amount of HRA and DA to the basic pay and correcting to 2 decimal places.
Logical Test Cases
28°C
Mostly cloudy
Search
ENG
IN
09:01
04-05-2023

V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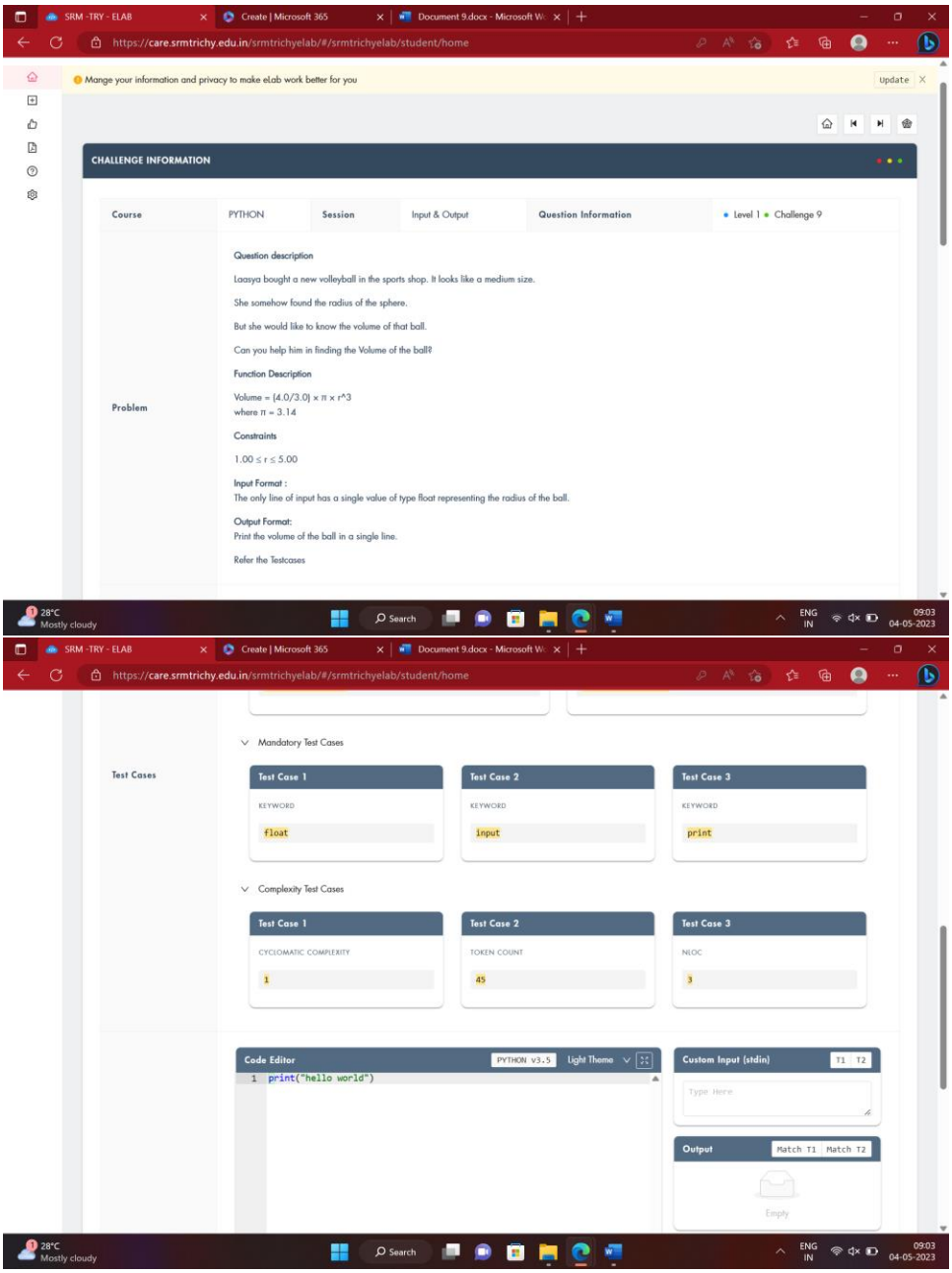
https://care.srmtrichy.edu.in/srmtrichyelab/#/srmtrichyelab/student/home
KEYWORD
float
KEYWORD
input
KEYWORD
print
Complexity Test Cases
Test Case 1
CYCLOMATIC COMPLEXITY
1
Test Case 2
TOKEN COUNT
55
Test Case 3
NLOC
10
Code Editor
PYTHON v3.5
Light Theme
1 print("hello world")
Custom Input (stdin)
T1 T2
Type Here
Output
Match T1 Match T2
Empty
Complexity Analysis
Test Case Status
Code Editor
28°C
Mostly cloudy
Search
ENG
IN
09:02
04-05-2023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CHALLENGE INFORMATION
Course
PYTHON
Session
Input & Output
Question Information
Level 1 • Challenge 9
Question description
Laasya bought a new volleyball in the sports shop. It looks like a medium size.
She somehow found the radius of the sphere.
But she would like to know the volume of that ball.
Can you help him in finding the Volume of the ball?
Function Description
Problem
Volume = (4.0/3.0) × π × r^3
where π = 3.14
Constraints
1.00 ≤ r ≤ 5.00
Input Format :
The only line of input has a single value of type float representing the radius of the ball.
Output Format:
Print the volume of the ball in a single line.
Refer the Testcases
28°C
Mostly cloudy
Search
ENG
IN
09:03
04-05-2023

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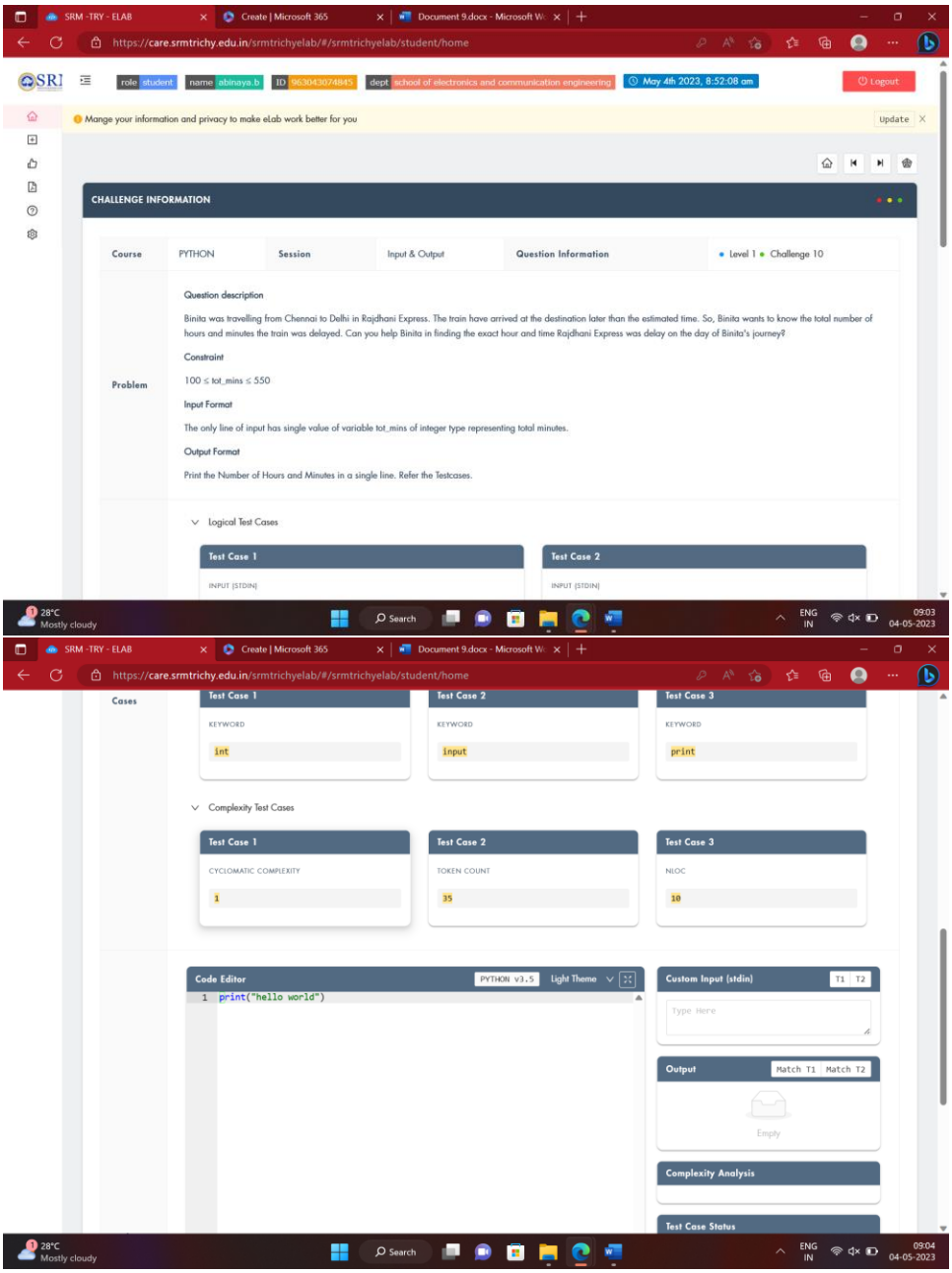
Mandatory Test Cases
Test Cases
Test Case 1
KEYWORD
float
Test Case 2
KEYWORD
input
Test Case 3
KEYWORD
print
Complexity Test Cases
Test Case 1
CYCLOMATIC COMPLEXITY
1
Test Case 2
TOKEN COUNT
45
Test Case 3
NLOC
3
Code Editor
PYTHON V3.5
Light Theme
1 print("hello world")
Custom Input (stdin)
T1 T2
Type Here
Output
Match T1 Match T2
Empty
28°C
Mostly cloudy
Search
ENG
IN
09:03
04-05-2023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Create | Microsoft 365
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https://care.srmtrichy.edu.in/srmtrichyelab/#/srmtrichyelab/student/home
role student
name abinaya.b
ID 963043074845
dept school of electronics and communication engineering
May 4th 2023, 8:52:08 am
Logout
Mange your information and privacy to make eLab work better for you
Update
CHALLENGE INFORMATION
Course
PYTHON
Session
Input & Output
Question Information
Level 1 • Challenge 10
Problem
Question description
Binita was travelling from Chennai to Delhi in Rajdhani Express. The train have arrived at the destination later than the estimated time. So, Binita wants to know the total number of hours and minutes the train was delayed. Can you help Binita in finding the exact hour and time Rajdhani Express was delay on the day of Binita's journey?
Constraint
100 ≤ tot_mins ≤ 550
Input Format
The only line of input has single value of variable tot_mins of integer type representing total minutes.
Output Format
Print the Number of Hours and Minutes in a single line. Refer the Testcases.
Logical Test Cases
Test Case 1
INPUT (STDIN)
Test Case 2
INPUT (STDIN)
28°C
Mostly cloudy
Search
ENG
IN
09:03
04-05-2023

SRM -TRY - ELAB
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Document 9.docx - Microsoft W
https://care.srmtrichy.edu.in/srmtrichyelab/#/srmtrichyelab/student/home
Cases
Test Case 1
KEYWORD
int
Test Case 2
KEYWORD
input
Test Case 3
KEYWORD
print
Complexity Test Cases
Test Case 1
CYCLOMATIC COMPLEXITY
1
Test Case 2
TOKEN COUNT
35
Test Case 3
NLOC
10
Code Editor
PYTHON V3.5
Light Theme
1 print("hello world")
Custom Input (stdin)
T1
T2
Type Here
Output
Match T1
Match T2
Empty
Complexity Analysis
Test Case Status
28°C
Mostly cloudy
Search
ENG
IN
09:04
04-05-2023