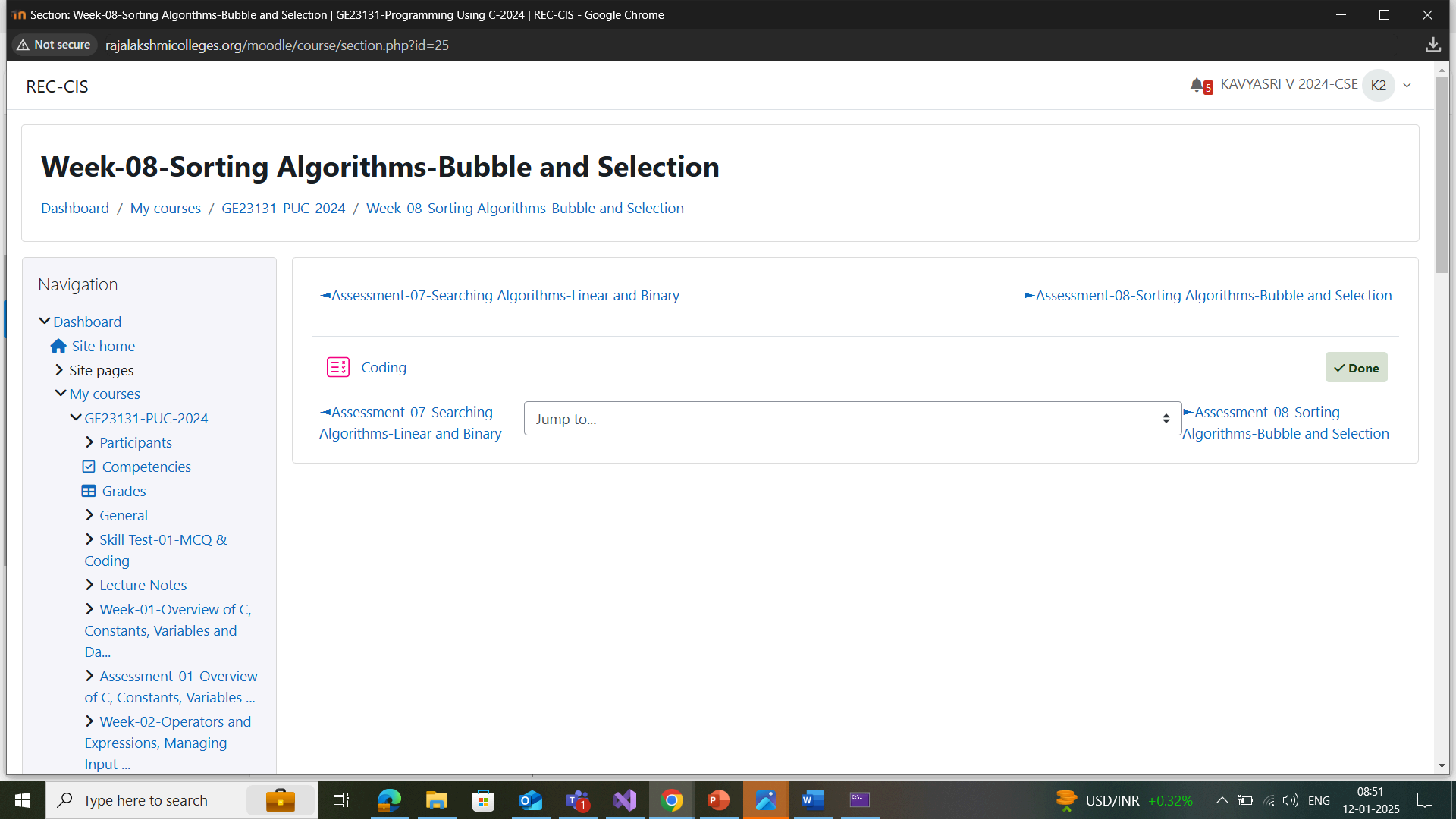

Section: Week-08-Sorting Algorithms-Bubble and Selection | GE23131-Programming Using C-2024 | REC-CIS - Google Chrome
Not secure
rajalakshmicolleges.org/moodle/course/section.php?id=25
REC-CIS
5
KAVYASRI V 2024-CSE
K2
Type here to search
USD/INR +0.32%
ENG
08:51
12-01-2025

Week-08-Sorting Algorithms-Bubble and Selection

Dashboard / My courses / GE23131-PUC-2024 / Week-08-Sorting Algorithms-Bubble and Selection

Navigation

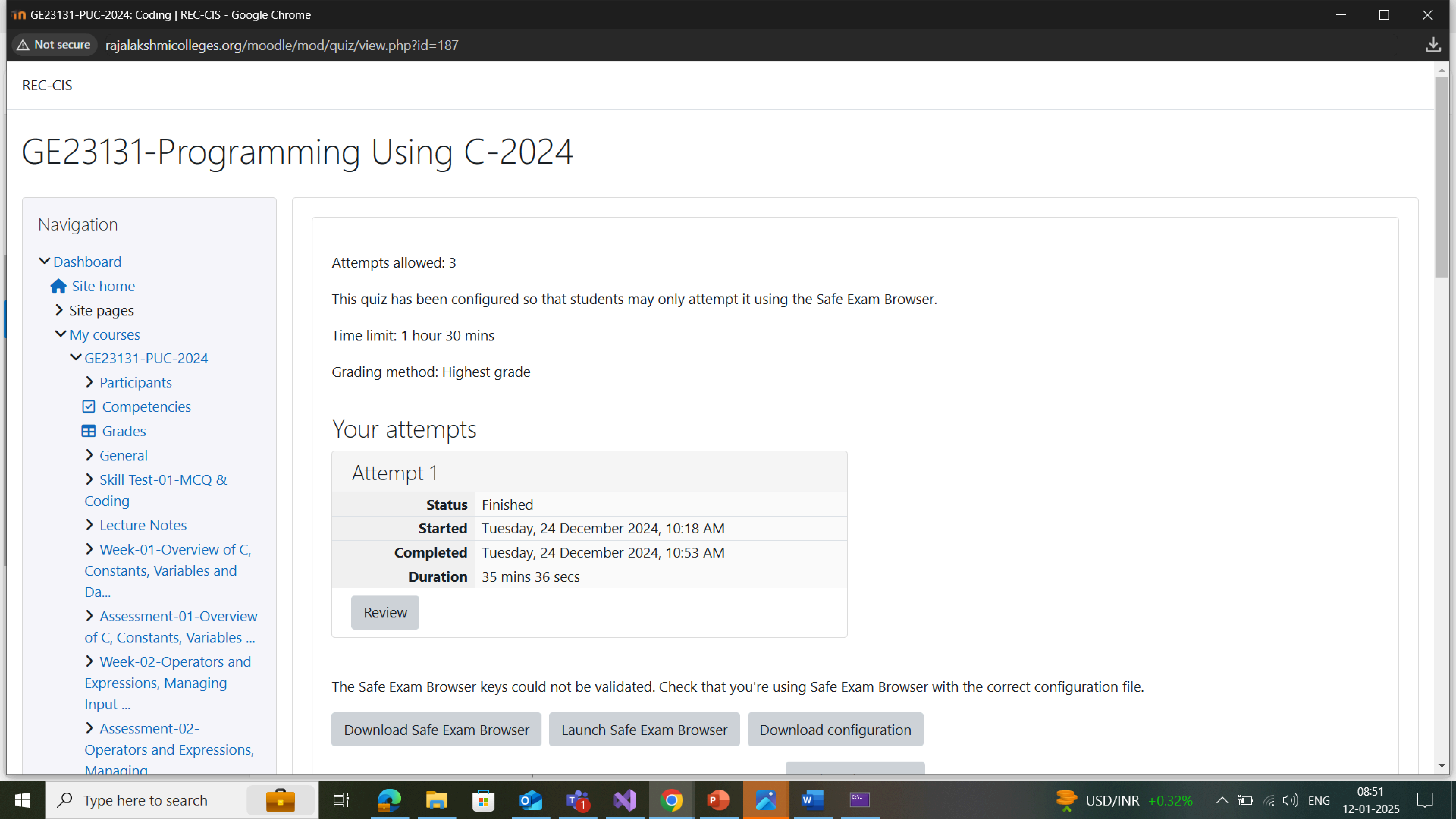
- Dashboard
  - Site home
  - Site pages
  - My courses
    - GE23131-PUC-2024
      - Participants
      - Competencies
      - Grades
      - General
      - Skill Test-01-MCQ & Coding
      - Lecture Notes
      - Week-01-Overview of C, Constants, Variables and Da...
      - Assessment-01-Overview of C, Constants, Variables ...
      - Week-02-Operators and Expressions, Managing Input ...

◄Assessment-07-Searching Algorithms-Linear and Binary
►Assessment-08-Sorting Algorithms-Bubble and Selection

Coding

✓ Done

◄Assessment-07-Searching Algorithms-Linear and Binary
Jump to...
►Assessment-08-Sorting Algorithms-Bubble and Selection


GE23131-PUC-2024: Coding | REC-CIS - Google Chrome
Not secure
rajalakshmicolleges.org/moodle/mod/quiz/view.php?id=187
REC-CIS
Navigation
Dashboard
Site home
Site pages
My courses
GE23131-PUC-2024
Participants
Competencies
Grades
General
Skill Test-01-MCQ & Coding
Lecture Notes
Week-01-Overview of C, Constants, Variables and Da...
Assessment-01-Overview of C, Constants, Variables ...
Week-02-Operators and Expressions, Managing Input ...
Assessment-02-Operators and Expressions, Managing
Review
Download Safe Exam Browser
Launch Safe Exam Browser
Download configuration
Type here to search
USD/INR +0.32%
ENG
08:51
12-01-2025

GE23131-Programming Using C-2024

Attempts allowed: 3

This quiz has been configured so that students may only attempt it using the Safe Exam Browser.

Time limit: 1 hour 30 mins

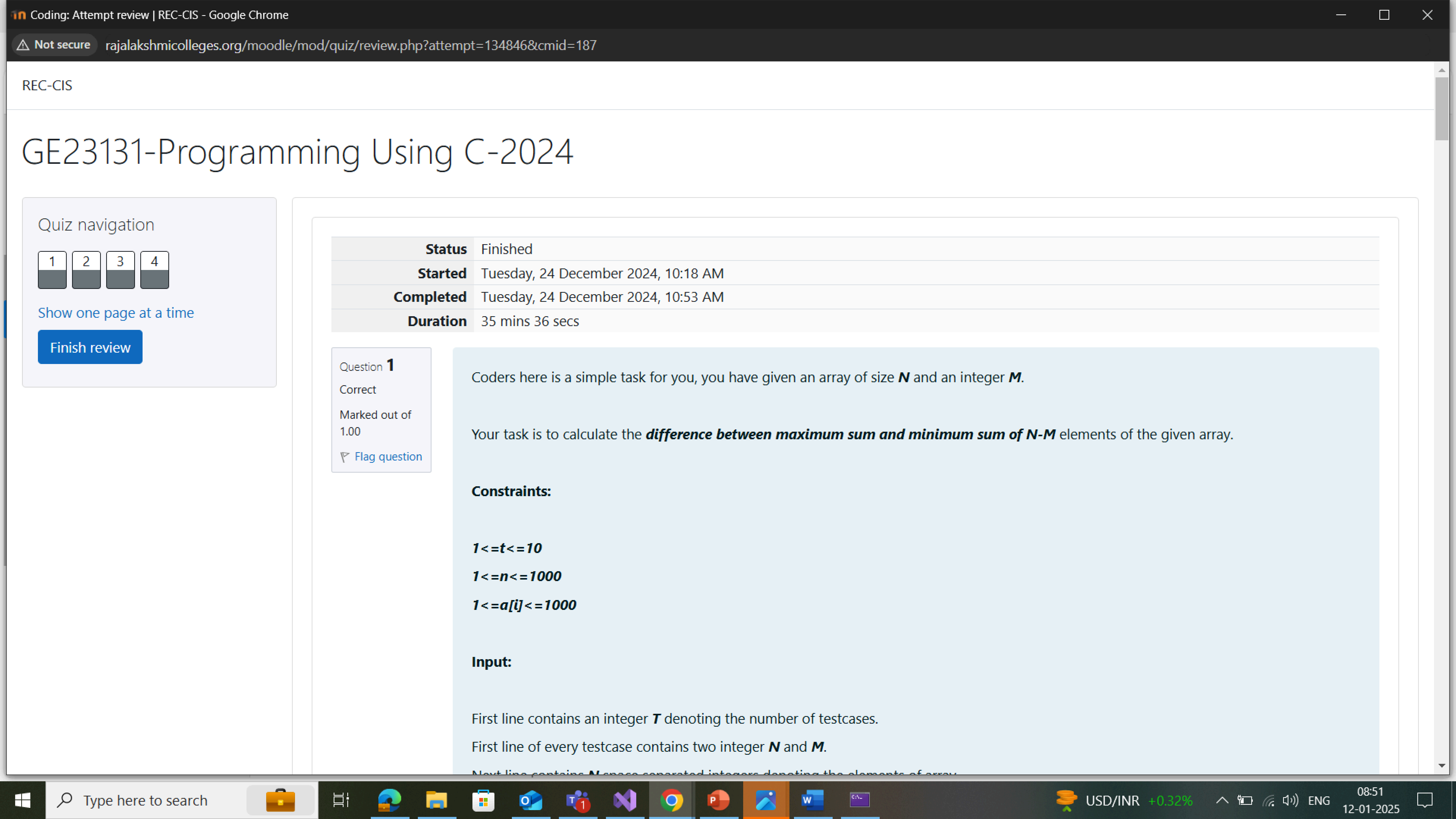
Grading method: Highest grade

Your attempts

Attempt 1

Status	Finished
Started	Tuesday, 24 December 2024, 10:18 AM
Completed	Tuesday, 24 December 2024, 10:53 AM
Duration	35 mins 36 secs

The Safe Exam Browser keys could not be validated. Check that you're using Safe Exam Browser with the correct configuration file.



Coding: Attempt review | REC-CIS - Google Chrome
Not secure
rajalakshmicolleges.org/moodle/mod/quiz/review.php?attempt=134846&cmid=187
REC-CIS

GE23131-Programming Using C-2024

Quiz navigation
1
2
3
4
Show one page at a time
Finish review

Status	Finished
Started	Tuesday, 24 December 2024, 10:18 AM
Completed	Tuesday, 24 December 2024, 10:53 AM
Duration	35 mins 36 secs

Question **1**

Correct

Marked out of 1.00

Coders here is a simple task for you, you have given an array of size ***N*** and an integer ***M***.

Your task is to calculate the ***difference between maximum sum and minimum sum of N-M*** elements of the given array.

Constraints:

1<=t<=10

1<=n<=1000

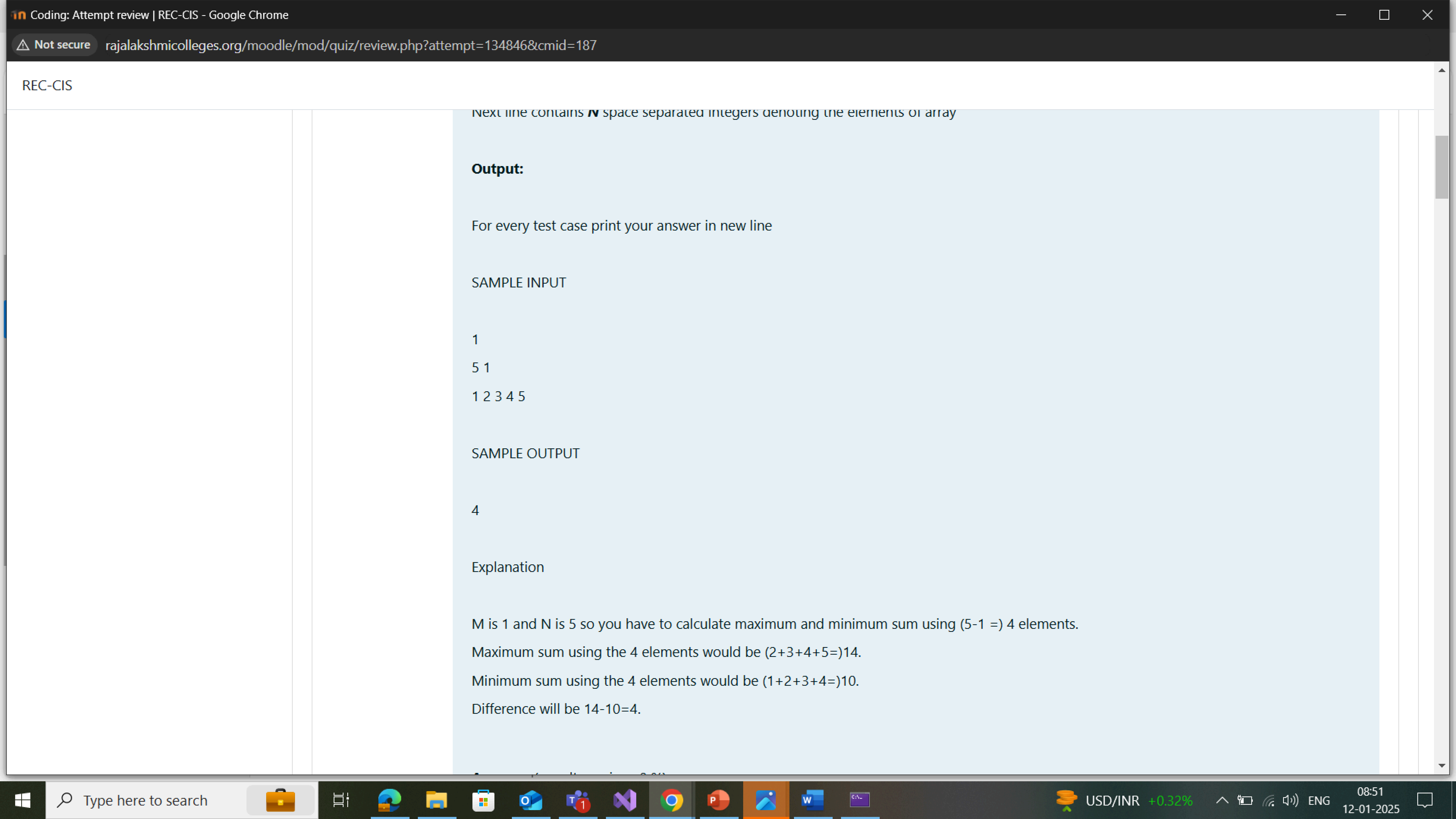
1<=a[i]<=1000

Input:

First line contains an integer ***T*** denoting the number of testcases.

First line of every testcase contains two integer ***N*** and ***M***.

Next line contains ***N*** space separated integers denoting the elements of array


Coding: Attempt review | REC-CIS - Google Chrome
Not secure
rajalakshmicolleges.org/moodle/mod/quiz/review.php?attempt=134846&cmid=187
REC-CIS
Type here to search
USD/INR +0.32%
ENG
08:51
12-01-2025

Next line contains ***N*** space separated integers denoting the elements of array

Output:

For every test case print your answer in new line

SAMPLE INPUT

```
1
5 1
1 2 3 4 5
```

SAMPLE OUTPUT

```
4
```

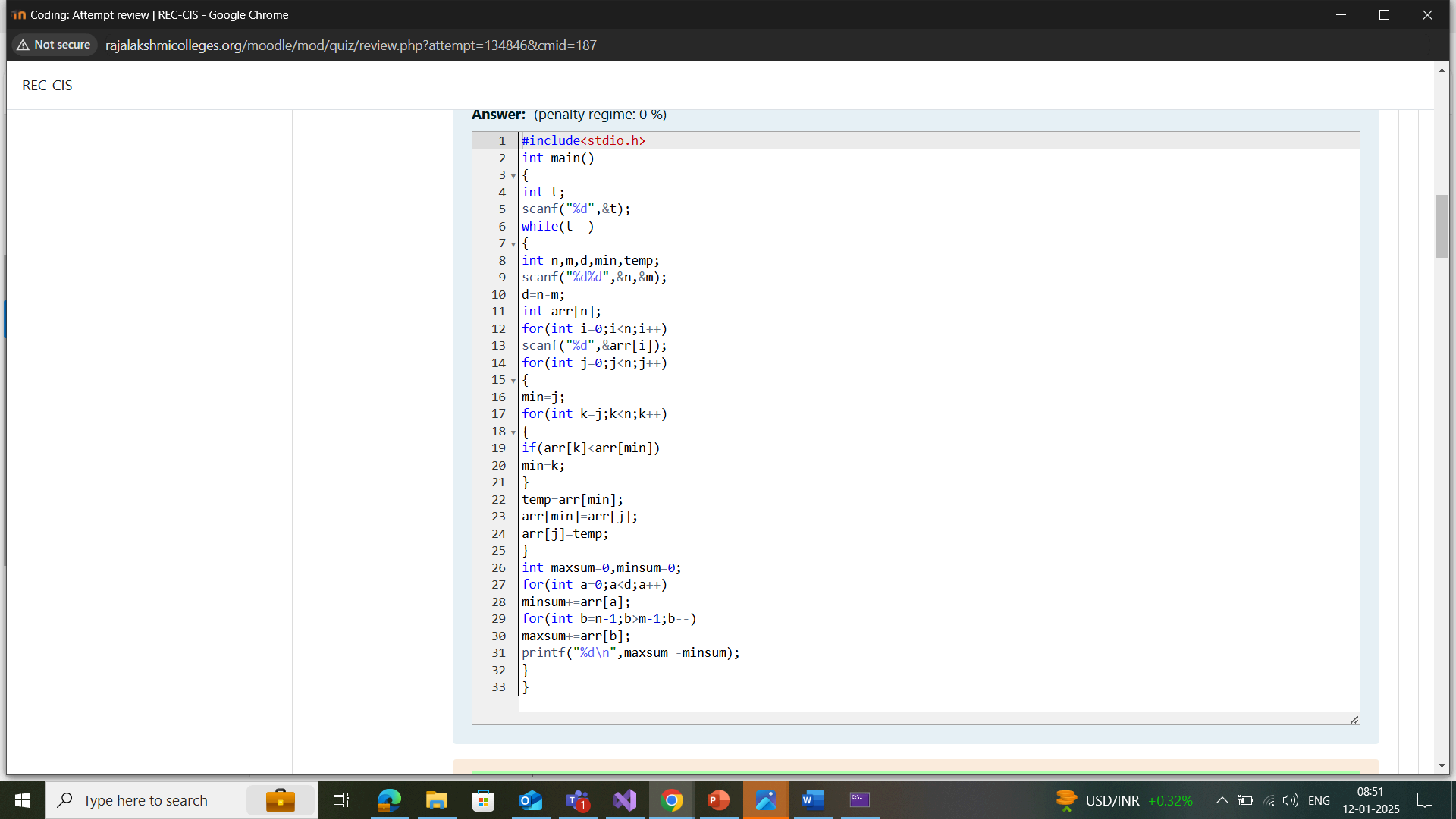
Explanation

M is 1 and N is 5 so you have to calculate maximum and minimum sum using (5-1 =) 4 elements.

Maximum sum using the 4 elements would be (2+3+4+5=)14.

Minimum sum using the 4 elements would be (1+2+3+4=)10.

Difference will be 14-10=4.



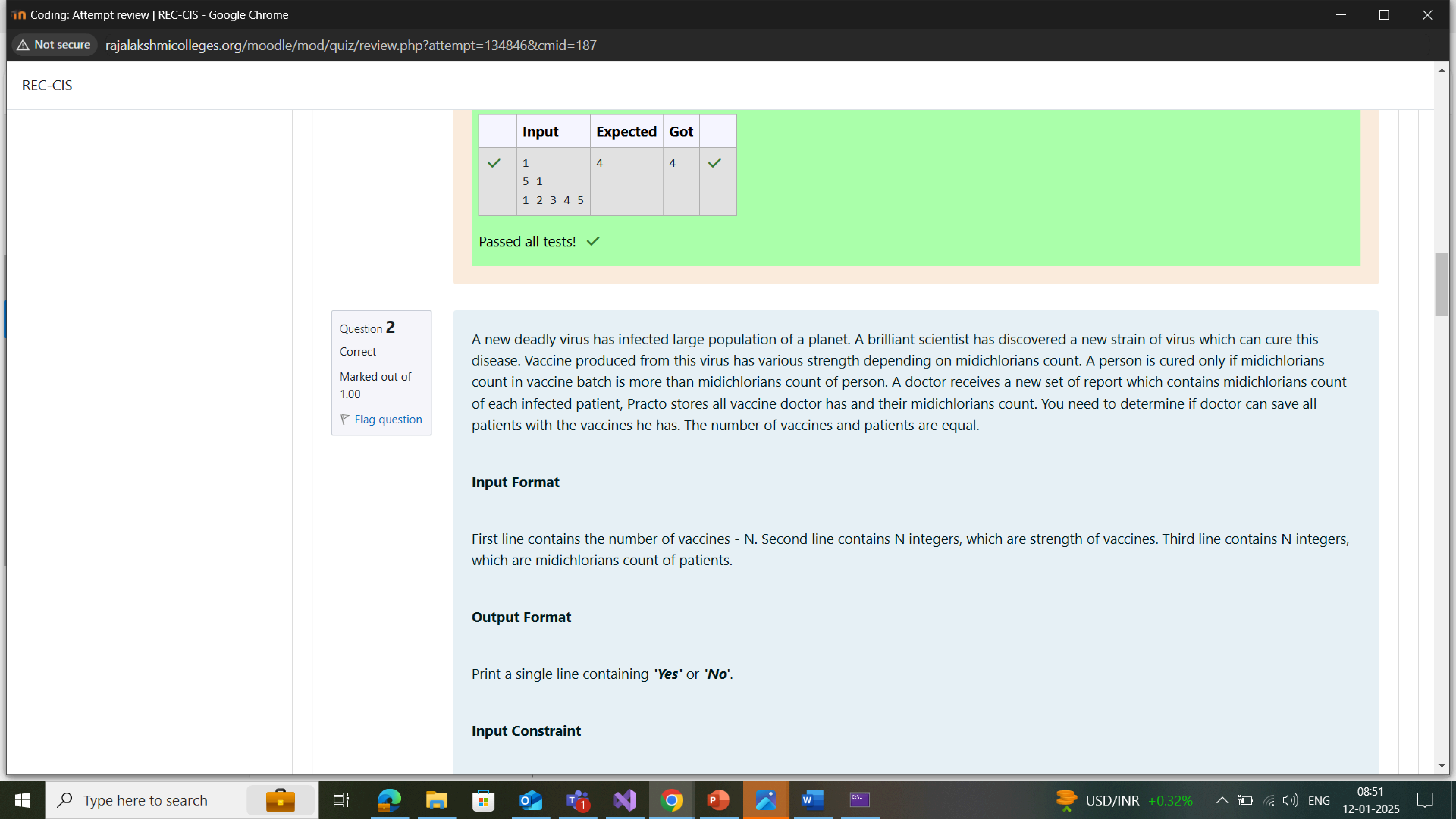
Coding: Attempt review | REC-CIS - Google Chrome

⚠ Not secure rajalakshmicolleges.org/moodle/mod/quiz/review.php?attempt=134846&cmid=187

REC-CIS

Answer: (penalty regime: 0 %)

```
#include<stdio.h>
int main()
{
int t;
scanf("%d",&t);
while(t--)
{
int n,m,d,min,temp;
scanf("%d%d",&n,&m);
d=n-m;
int arr[n];
for(int i=0;i<n;i++)
scanf("%d",&arr[i]);
for(int j=0;j<n;j++)
{
min=j;
for(int k=j;k<n;k++)
{
if(arr[k]<arr[min])
min=k;
}
temp=arr[min];
arr[min]=arr[j];
arr[j]=temp;
}
int maxsum=0,minsum=0;
for(int a=0;a<d;a++)
minsum+=arr[a];
for(int b=n-1;b>m-1;b--)
maxsum+=arr[b];
printf("%d\n",maxsum -minsum);
}
}
```


Coding: Attempt review | REC-CIS - Google Chrome
Not secure
rajalakshmicolleges.org/moodle/mod/quiz/review.php?attempt=134846&cmid=187
REC-CIS

	Input	Expected	Got	
✓	1 5 1 1 2 3 4 5	4	4	✓

Passed all tests! ✓

Question **2**

Correct

Marked out of 1.00

A new deadly virus has infected large population of a planet. A brilliant scientist has discovered a new strain of virus which can cure this disease. Vaccine produced from this virus has various strength depending on midichlorians count. A person is cured only if midichlorians count in vaccine batch is more than midichlorians count of person. A doctor receives a new set of report which contains midichlorians count of each infected patient, Practo stores all vaccine doctor has and their midichlorians count. You need to determine if doctor can save all patients with the vaccines he has. The number of vaccines and patients are equal.

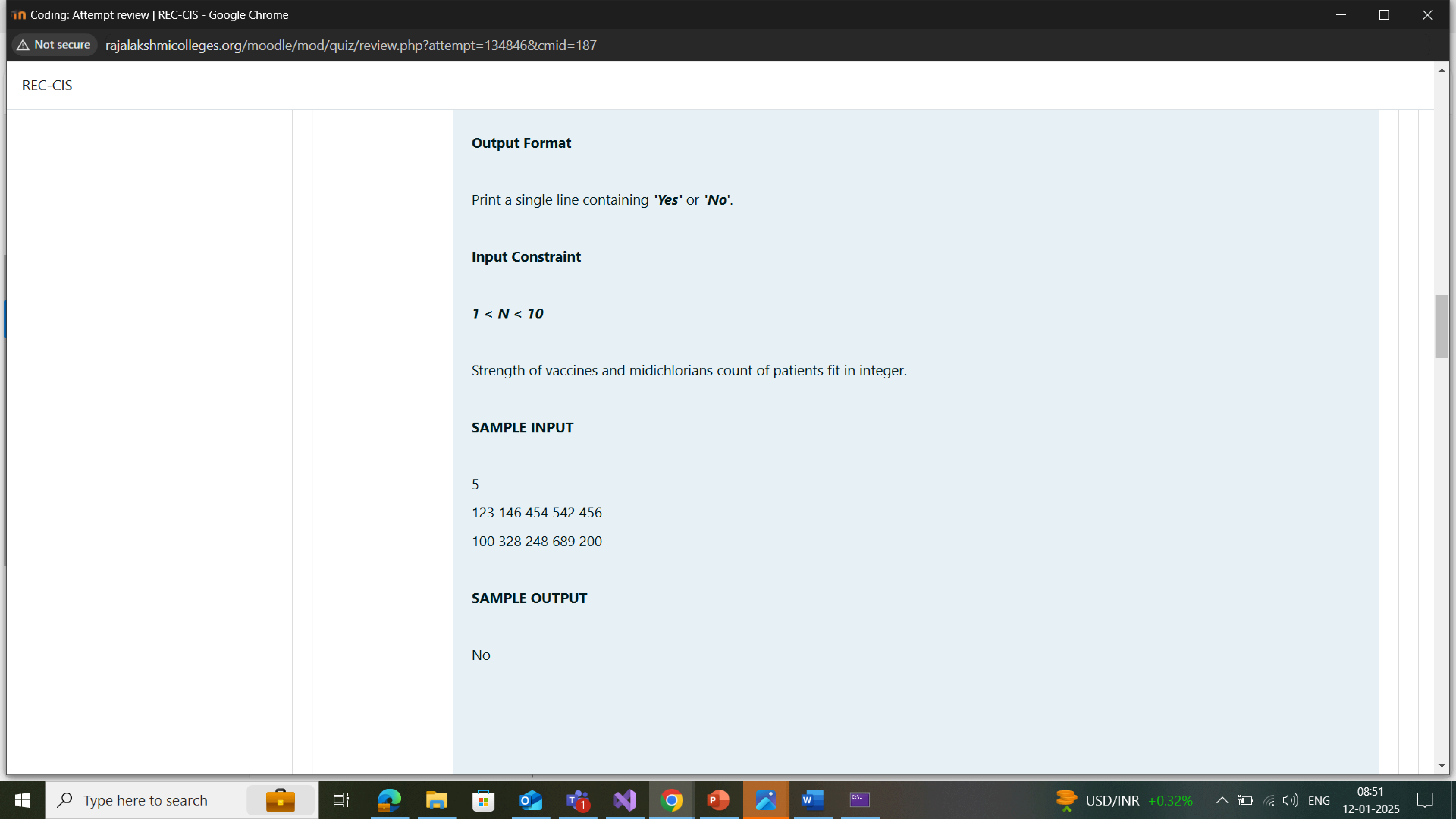
Input Format

First line contains the number of vaccines - N. Second line contains N integers, which are strength of vaccines. Third line contains N integers, which are midichlorians count of patients.

Output Format

Print a single line containing ***'Yes'*** or ***'No'***.

Input Constraint


Coding: Attempt review | REC-CIS - Google Chrome
Not secure
rajalakshmicolleges.org/moodle/mod/quiz/review.php?attempt=134846&cmid=187
REC-CIS
Type here to search
USD/INR +0.32%
ENG
08:51
12-01-2025

Output Format

Print a single line containing ***'Yes'*** or ***'No'***.

Input Constraint

1 < N < 10

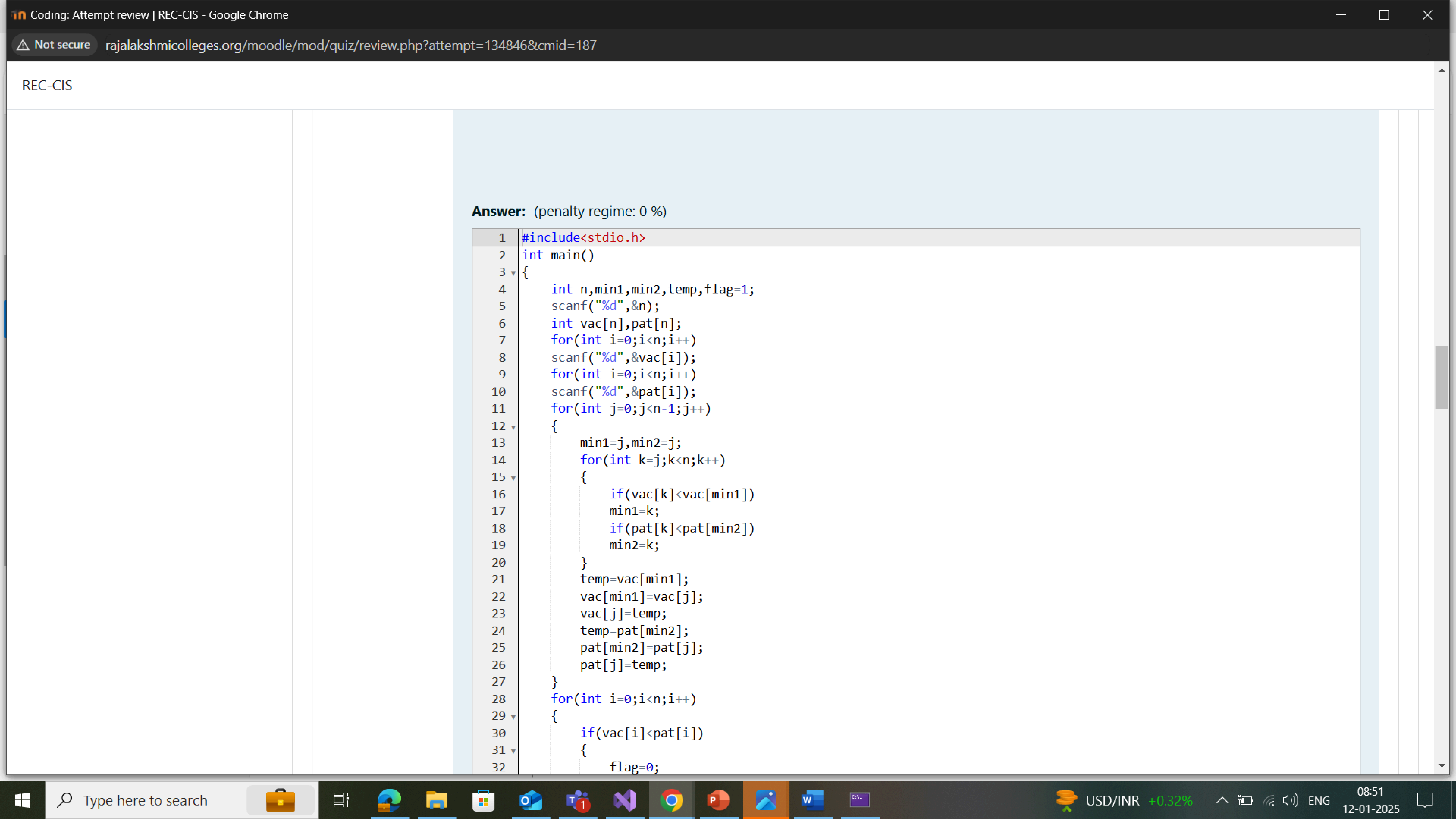
Strength of vaccines and midichlorians count of patients fit in integer.

SAMPLE INPUT

```
5
123 146 454 542 456
100 328 248 689 200
```

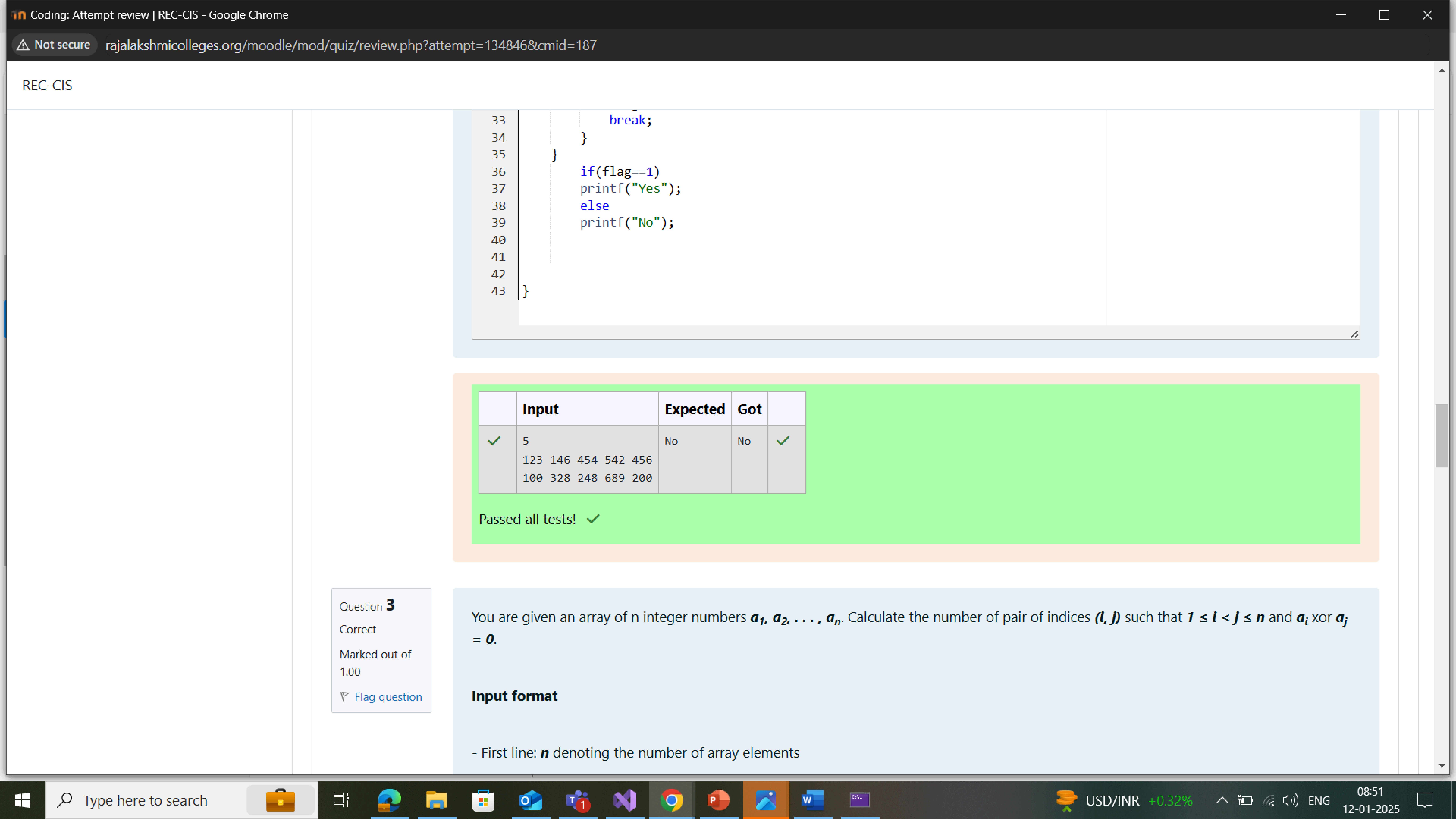
SAMPLE OUTPUT

```
No
```


Coding: Attempt review | REC-CIS - Google Chrome
Not secure
rajalakshmicolleges.org/moodle/mod/quiz/review.php?attempt=134846&cmid=187
REC-CIS
Type here to search
USD/INR +0.32%
ENG
08:51
12-01-2025

Answer: (penalty regime: 0 %)

```
#include<stdio.h>
int main()
{
    int n,min1,min2,temp,flag=1;
    scanf("%d",&n);
    int vac[n],pat[n];
    for(int i=0;i<n;i++)
    scanf("%d",&vac[i]);
    for(int i=0;i<n;i++)
    scanf("%d",&pat[i]);
    for(int j=0;j<n-1;j++)
    {
        min1=j,min2=j;
        for(int k=j;k<n;k++)
        {
            if(vac[k]<vac[min1])
            min1=k;
            if(pat[k]<pat[min2])
            min2=k;
        }
        temp=vac[min1];
        vac[min1]=vac[j];
        vac[j]=temp;
        temp=pat[min2];
        pat[min2]=pat[j];
        pat[j]=temp;
    }
    for(int i=0;i<n;i++)
    {
        if(vac[i]<pat[i])
        {
            flag=0;
```


Coding: Attempt review | REC-CIS - Google Chrome
Not secure
rajalakshmicolleges.org/moodle/mod/quiz/review.php?attempt=134846&cmid=187
REC-CIS

```
      break;
    }
  }
    if(flag==1)
    printf("Yes");
    else
    printf("No");



}
```

	Input	Expected	Got	
✓	5 123 146 454 542 456 100 328 248 689 200	No	No	✓

Passed all tests! ✓

Question **3**

Correct

Marked out of 1.00

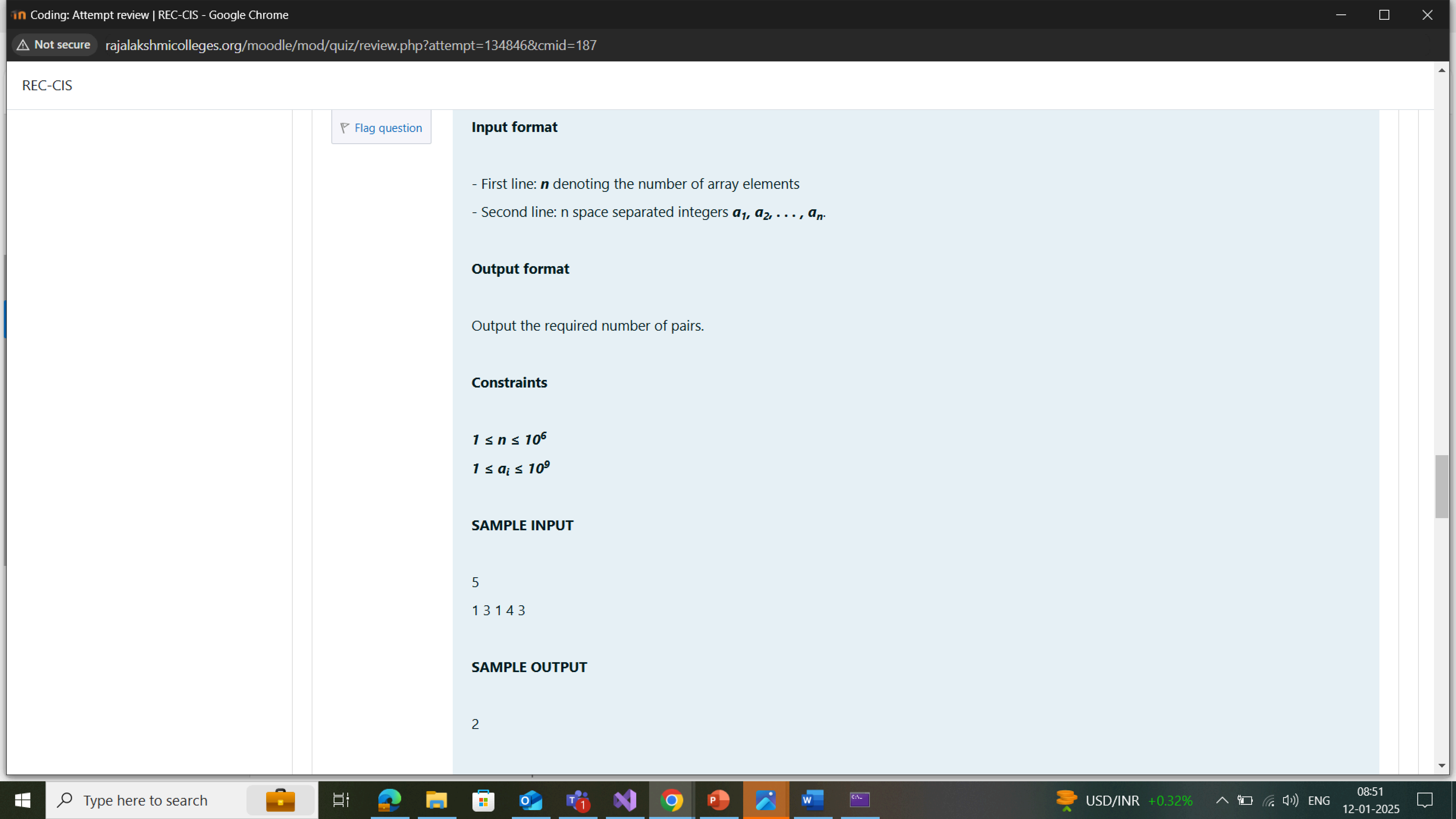
Flag question

You are given an array of n integer numbers $a_1, a_2, ..., a_n$. Calculate the number of pair of indices ***(i, j)*** such that $1 \leq i < j \leq n$ and a_i xor $a_j = 0$.

Input format

- First line: ***n*** denoting the number of array elements

Type here to search
USD/INR +0.32%
ENG
08:51
12-01-2025



Coding: Attempt review | REC-CIS - Google Chrome
Not secure
rajalakshmicolleges.org/moodle/mod/quiz/review.php?attempt=134846&cmid=187
REC-CIS
Flag question
Type here to search
USD/INR +0.32%
ENG
08:51
12-01-2025

Input format

- First line: ***n*** denoting the number of array elements

- Second line: n space separated integers $a_1, a_2, . . . , a_n$.

Output format

Output the required number of pairs.

Constraints

$1 \le n \le 10^6$

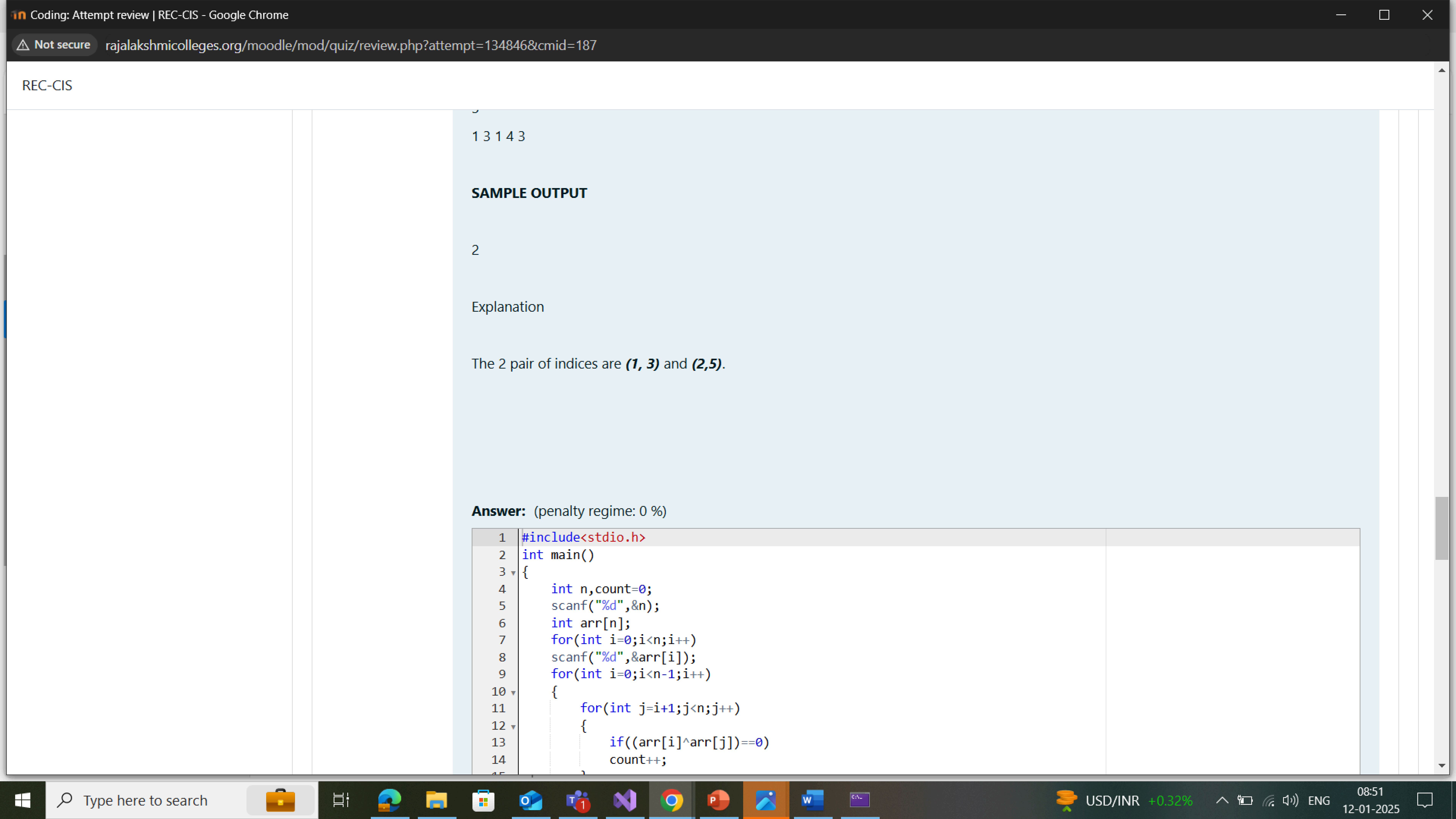
$1 \le a_i \le 10^9$

SAMPLE INPUT

```
5
1 3 1 4 3
```

SAMPLE OUTPUT

```
2
```


Coding: Attempt review | REC-CIS - Google Chrome
Not secure
rajalakshmicolleges.org/moodle/mod/quiz/review.php?attempt=134846&cmid=187
REC-CIS
Type here to search
USD/INR +0.32%
ENG
08:51
12-01-2025

5

1 3 1 4 3

SAMPLE OUTPUT

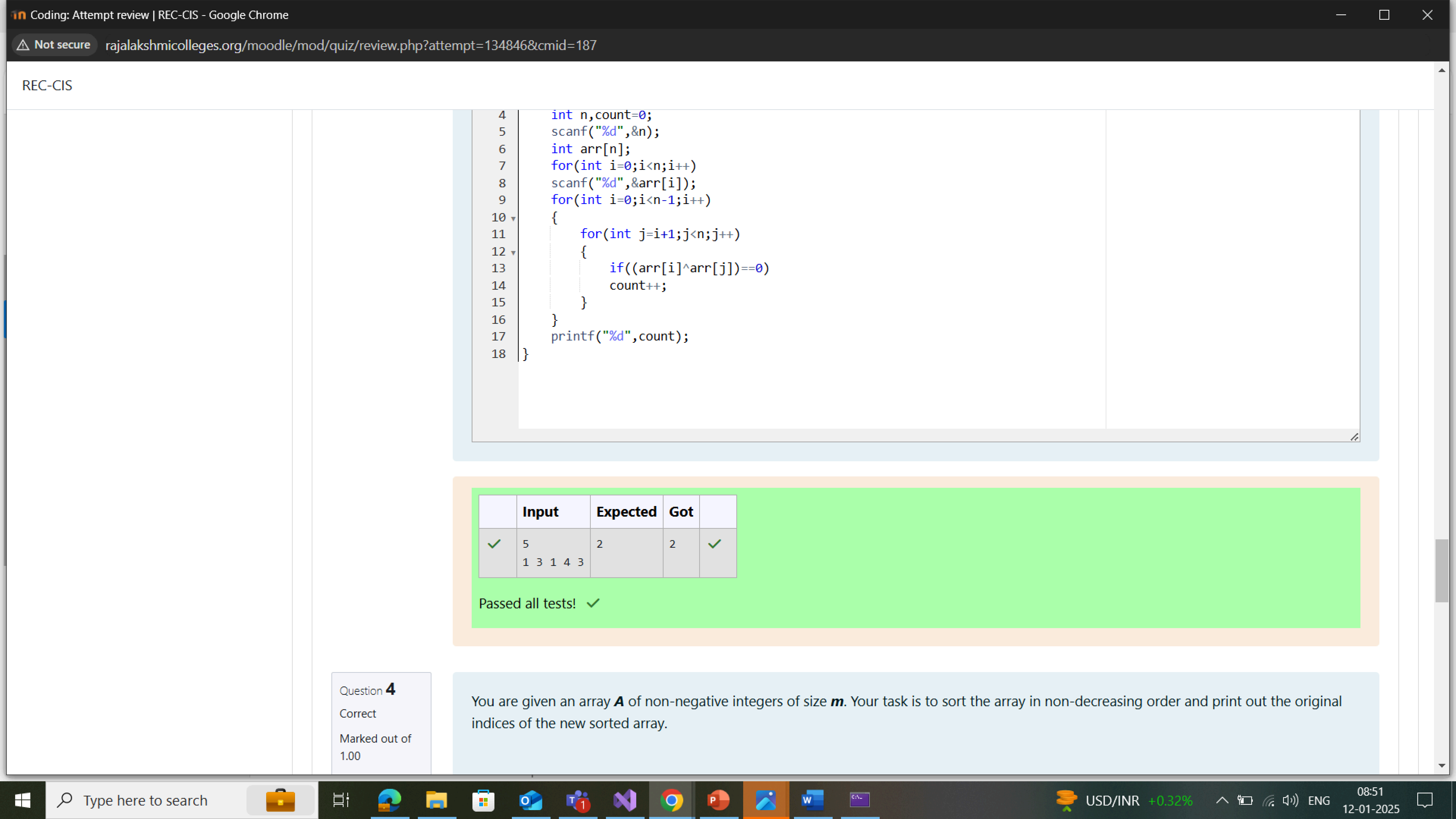
2

Explanation

The 2 pair of indices are ***(1, 3)*** and ***(2,5)***.

Answer: (penalty regime: 0 %)

```
#include<stdio.h>
int main()
{
    int n,count=0;
    scanf("%d",&n);
    int arr[n];
    for(int i=0;i<n;i++)
    scanf("%d",&arr[i]);
    for(int i=0;i<n-1;i++)
    {
        for(int j=i+1;j<n;j++)
        {
            if((arr[i]^arr[j])==0)
            count++;
        }
```


Coding: Attempt review | REC-CIS - Google Chrome
Not secure
rajalakshmicolleges.org/moodle/mod/quiz/review.php?attempt=134846&cmid=187
REC-CIS
Type here to search
USD/INR +0.32%
ENG
08:51
12-01-2025

```
    int n,count=0;
    scanf("%d",&n);
    int arr[n];
    for(int i=0;i<n;i++)
    scanf("%d",&arr[i]);
    for(int i=0;i<n-1;i++)
    {
        for(int j=i+1;j<n;j++)
        {
            if((arr[i]^arr[j])==0)
            count++;
        }
    }
    printf("%d",count);
}
```

	Input	Expected	Got	
✓	5 1 3 1 4 3	2	2	✓

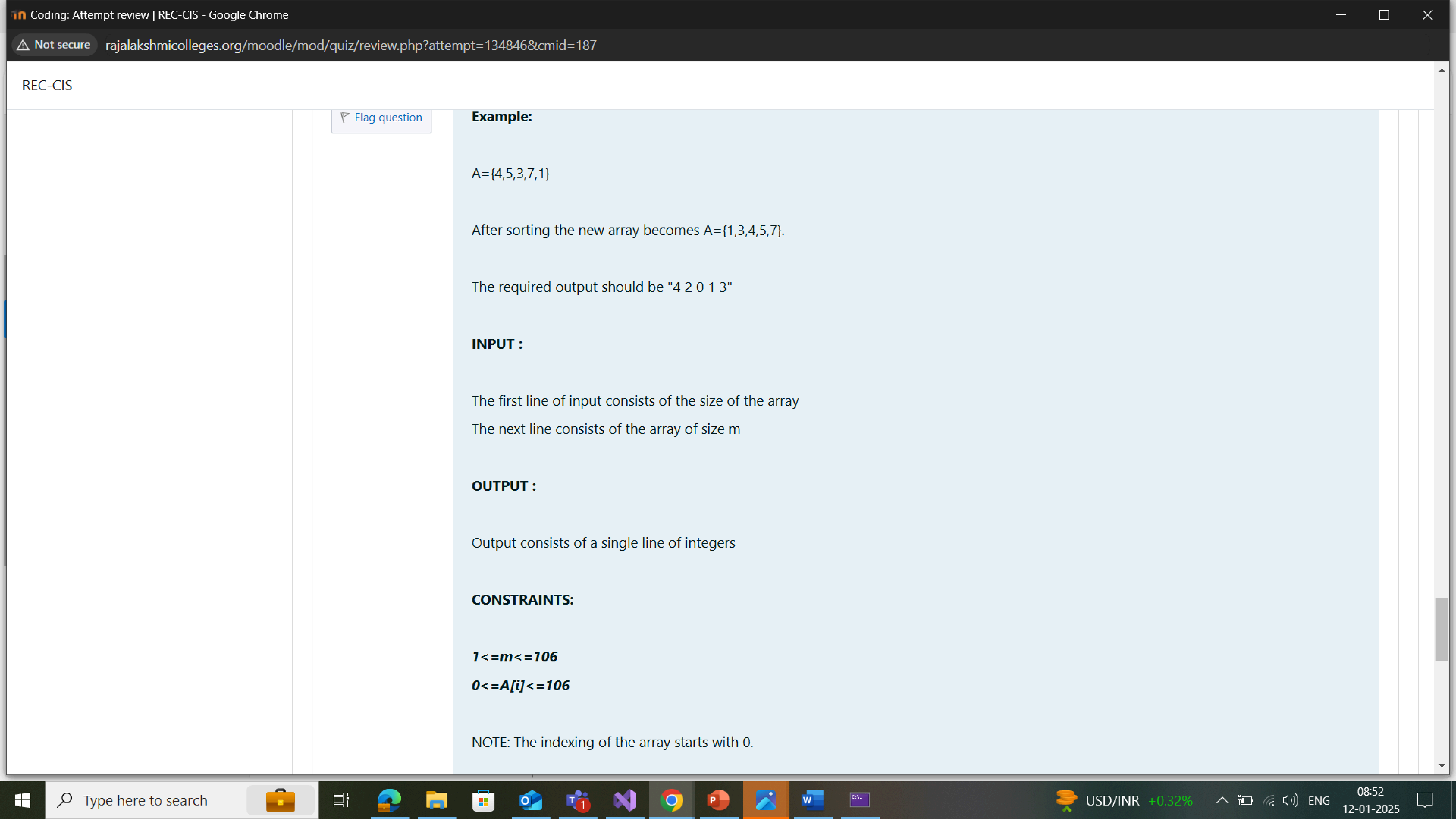
Passed all tests! ✓

Question **4**

Correct

Marked out of 1.00

You are given an array ***A*** of non-negative integers of size ***m***. Your task is to sort the array in non-decreasing order and print out the original indices of the new sorted array.



Coding: Attempt review | REC-CIS - Google Chrome
Not secure
rajalakshmicolleges.org/moodle/mod/quiz/review.php?attempt=134846&cmid=187
REC-CIS
Flag question
Type here to search
USD/INR +0.32%
ENG
08:52
12-01-2025

Example:

A={4,5,3,7,1}

After sorting the new array becomes A={1,3,4,5,7}.

The required output should be "4 2 0 1 3"

INPUT :

The first line of input consists of the size of the array

The next line consists of the array of size m

OUTPUT :

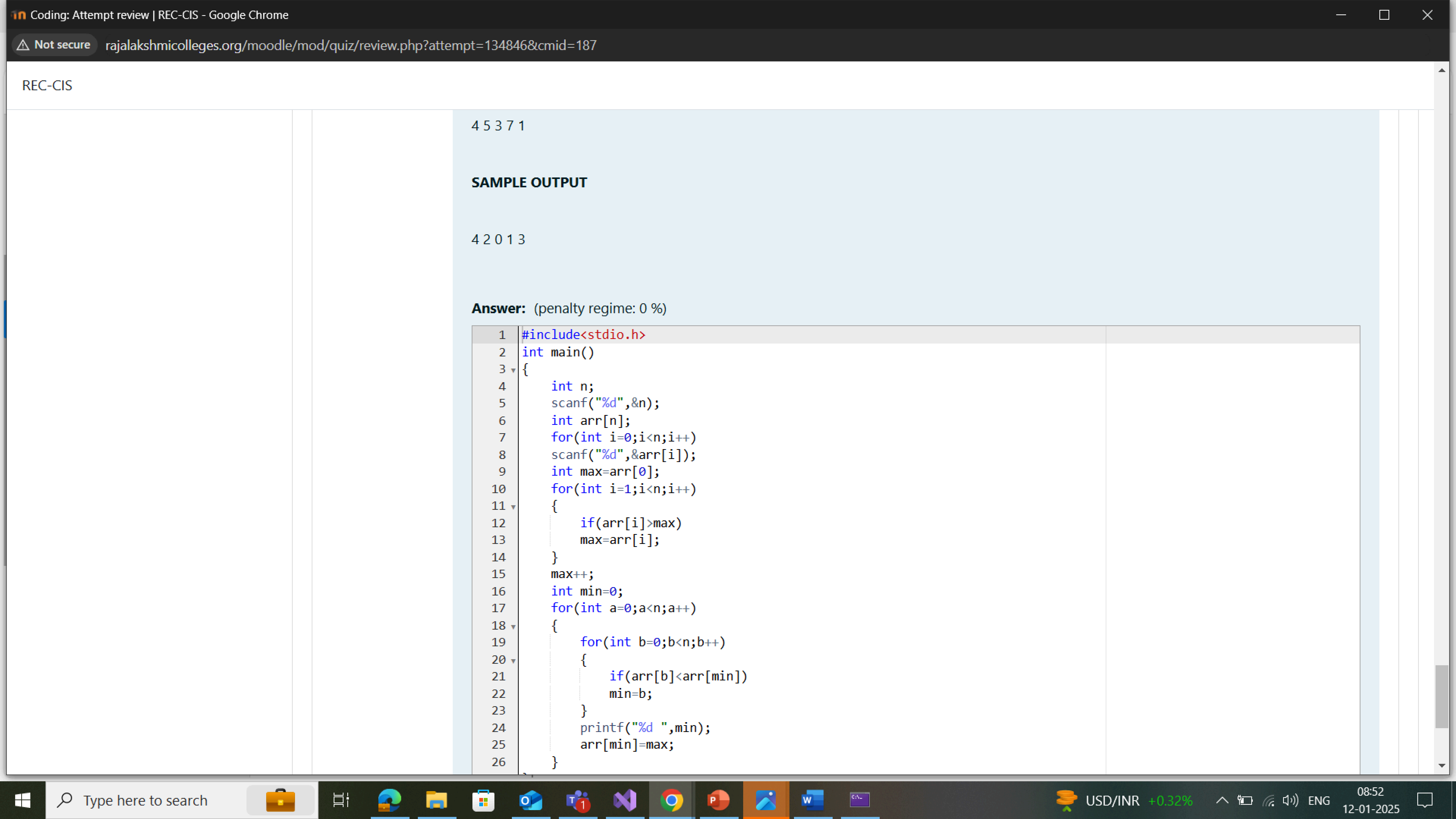
Output consists of a single line of integers

CONSTRAINTS:

1<=m<=106

0<=A[i]<=106

NOTE: The indexing of the array starts with 0.



Coding: Attempt review | REC-CIS - Google Chrome
Not secure
rajalakshmicolleges.org/moodle/mod/quiz/review.php?attempt=134846&cmid=187
REC-CIS

4 5 3 7 1

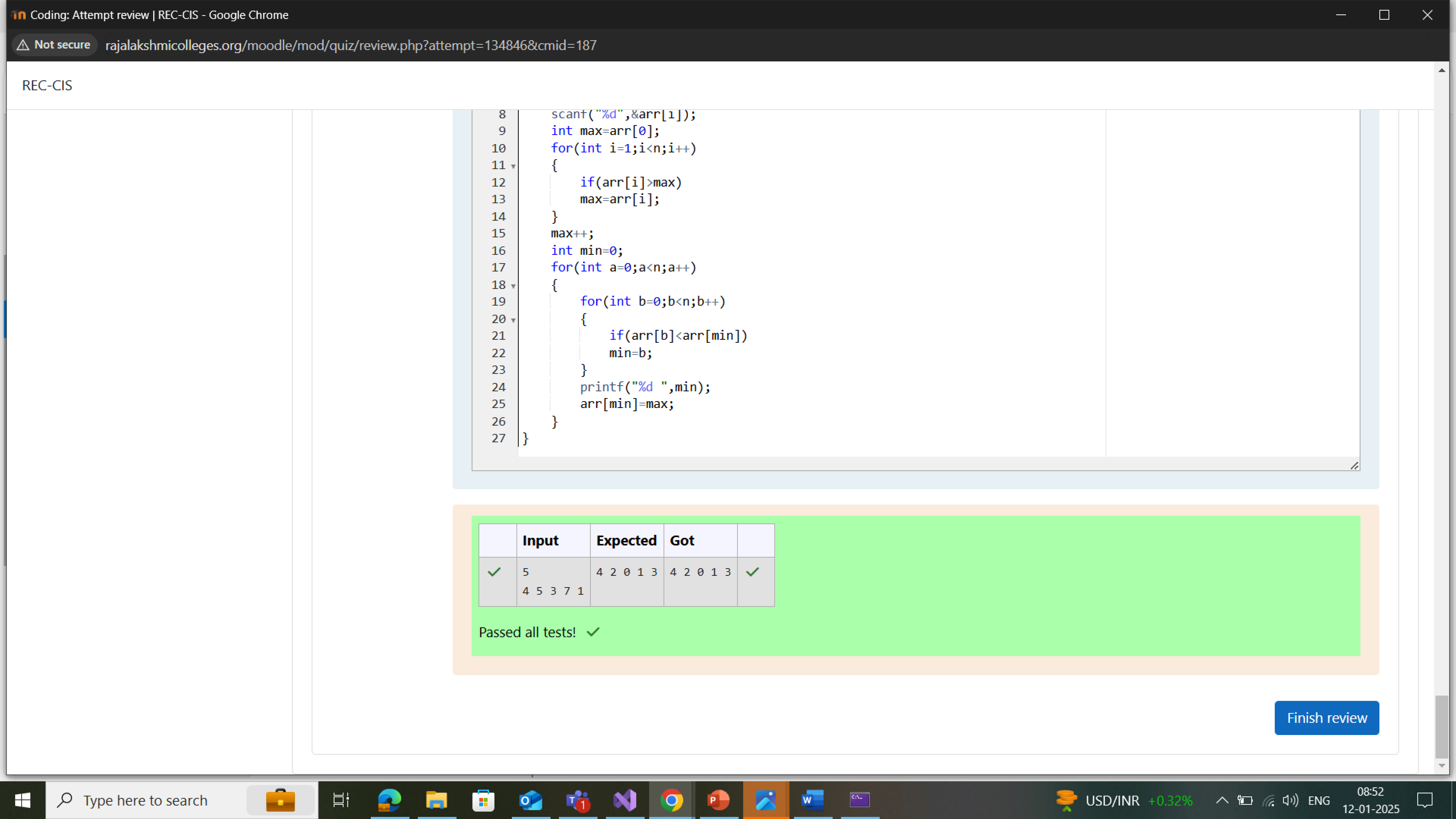
SAMPLE OUTPUT

4 2 0 1 3

Answer: (penalty regime: 0 %)

```
#include<stdio.h>
int main()
{
    int n;
    scanf("%d",&n);
    int arr[n];
    for(int i=0;i<n;i++)
    scanf("%d",&arr[i]);
    int max=arr[0];
    for(int i=1;i<n;i++)
    {
        if(arr[i]>max)
        max=arr[i];
    }
    max++;
    int min=0;
    for(int a=0;a<n;a++)
    {
        for(int b=0;b<n;b++)
        {
            if(arr[b]<arr[min])
            min=b;
        }
        printf("%d ",min);
        arr[min]=max;
    }
```

Type here to search
USD/INR +0.32%
ENG
08:52
12-01-2025

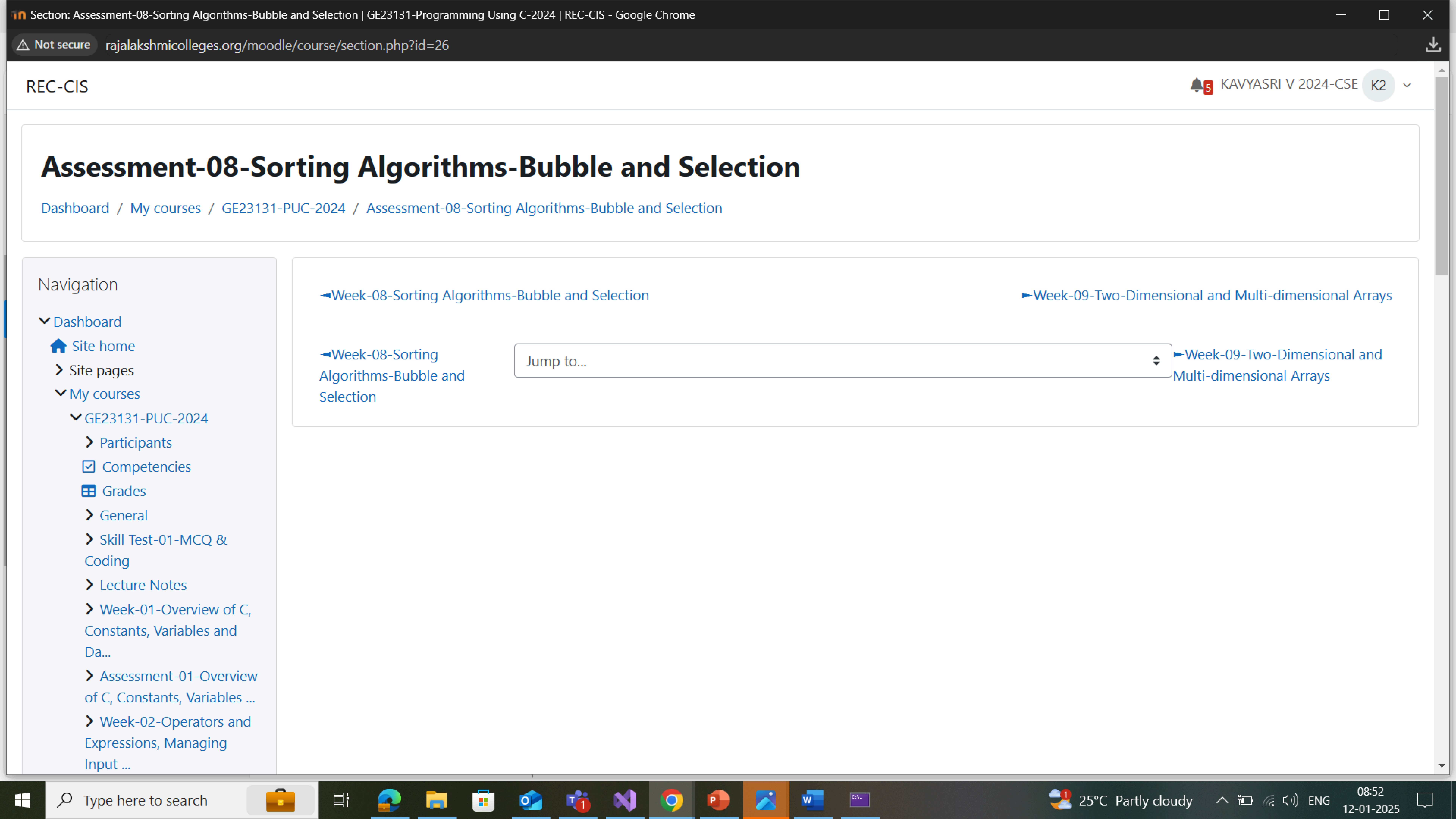


Coding: Attempt review | REC-CIS - Google Chrome
Not secure
rajalakshmicolleges.org/moodle/mod/quiz/review.php?attempt=134846&cmid=187
REC-CIS
Finish review
Type here to search
USD/INR +0.32%
ENG
08:52
12-01-2025

```
    scanf("%d",&arr[i]);
    int max=arr[0];
    for(int i=1;i<n;i++)
    {
        if(arr[i]>max)
        max=arr[i];
    }
    max++;
    int min=0;
    for(int a=0;a<n;a++)
    {
        for(int b=0;b<n;b++)
        {
            if(arr[b]<arr[min])
            min=b;
        }
        printf("%d ",min);
        arr[min]=max;
    }
}
```

	Input	Expected	Got	
✓	5 4 5 3 7 1	4 2 0 1 3	4 2 0 1 3	✓

Passed all tests! ✓


Section: Assessment-08-Sorting Algorithms-Bubble and Selection | GE23131-Programming Using C-2024 | REC-CIS - Google Chrome
Not secure
rajalakshmicolleges.org/moodle/course/section.php?id=26
REC-CIS
5
KAVYASRI V 2024-CSE
K2

Assessment-08-Sorting Algorithms-Bubble and Selection

Dashboard / My courses / GE23131-PUC-2024 / Assessment-08-Sorting Algorithms-Bubble and Selection

Navigation

- Dashboard
  - Site home
  - Site pages
  - My courses
    - GE23131-PUC-2024
      - Participants
      - Competencies
      - Grades
      - General
      - Skill Test-01-MCQ & Coding
      - Lecture Notes
      - Week-01-Overview of C, Constants, Variables and Da...
      - Assessment-01-Overview of C, Constants, Variables ...
      - Week-02-Operators and Expressions, Managing Input ...

◄Week-08-Sorting Algorithms-Bubble and Selection

►Week-09-Two-Dimensional and Multi-dimensional Arrays

◄Week-08-Sorting Algorithms-Bubble and Selection

Jump to...

►Week-09-Two-Dimensional and Multi-dimensional Arrays