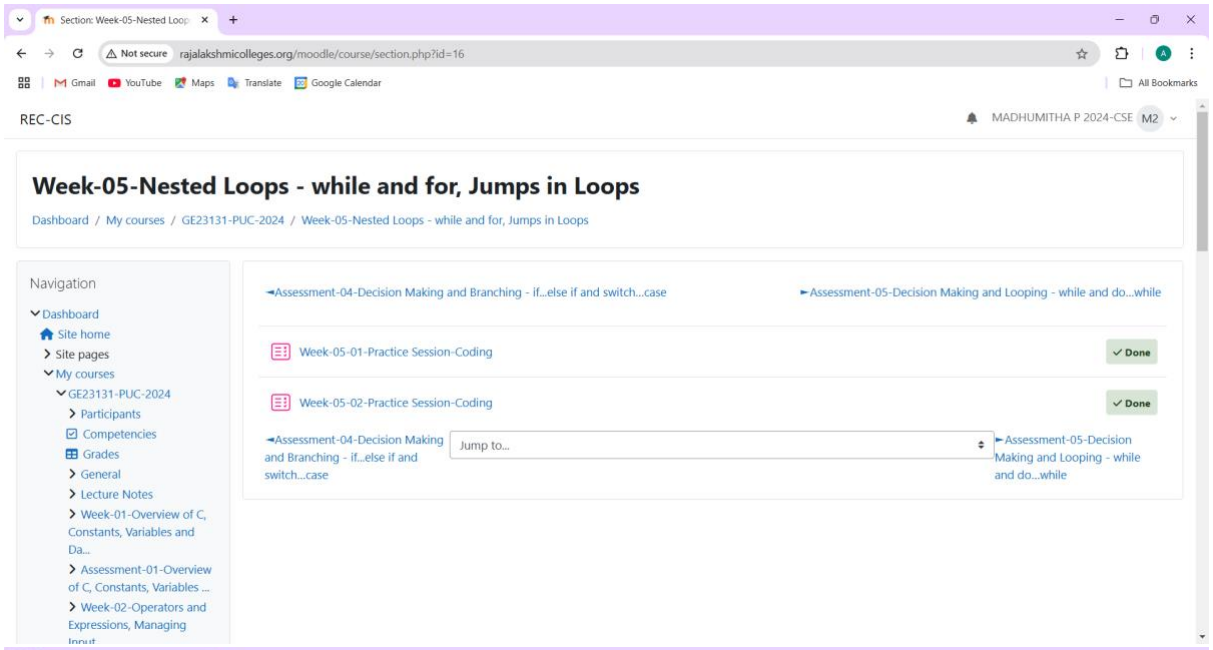
Section: Week-05-Nested Loop
Not secure
rajalakshmicolleges.org/moodle/course/section.php?id=16
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Week-05-Nested Loops - while and for, Jumps in Loops
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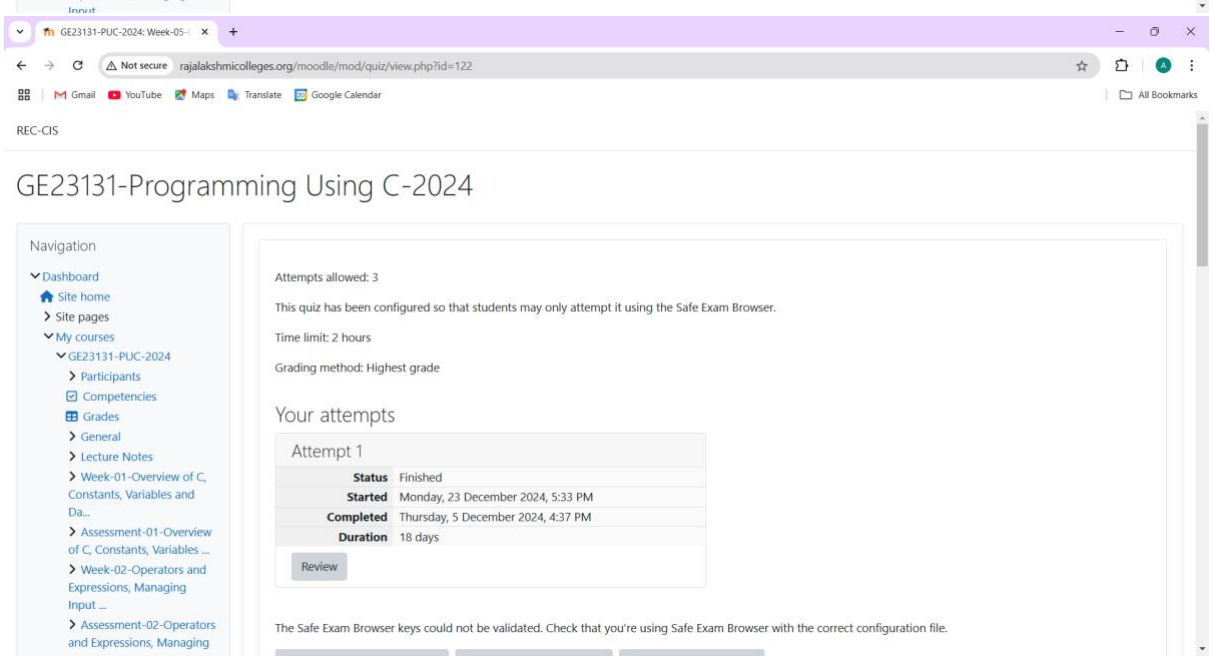
Done
◄Assessment-04-Decision Making and Branching - if...else if and switch...case
Jump to...
►Assessment-05-Decision Making and Looping - while and do...while


GE23131-PUC-2024: Week-05-
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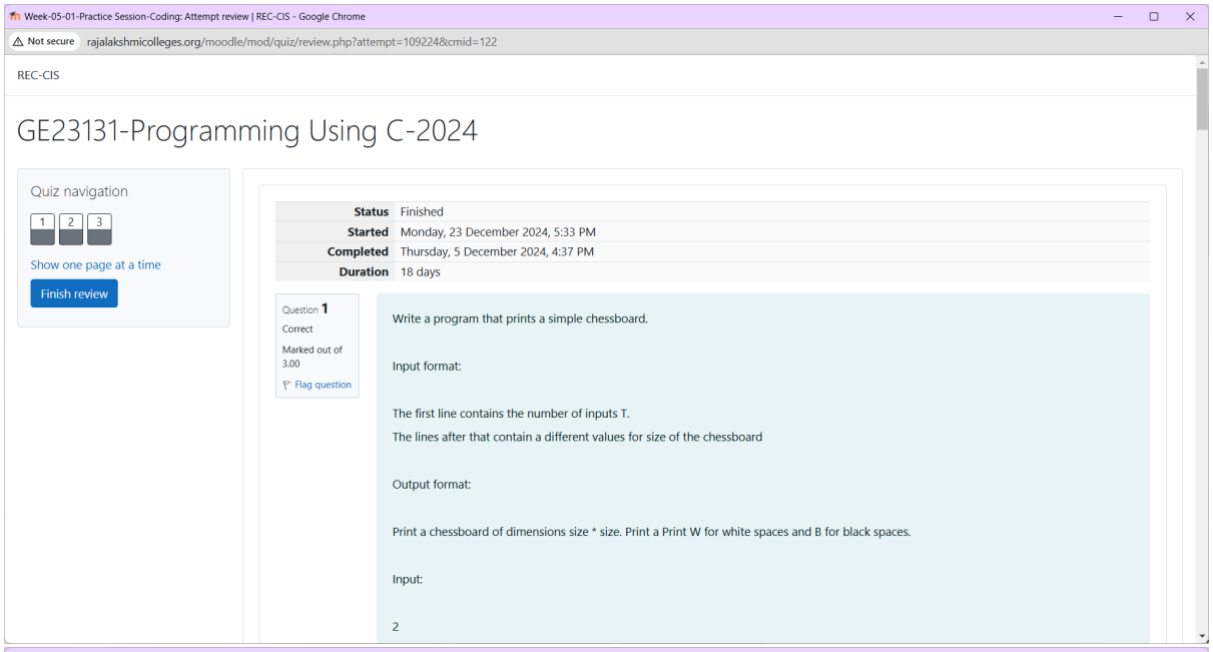
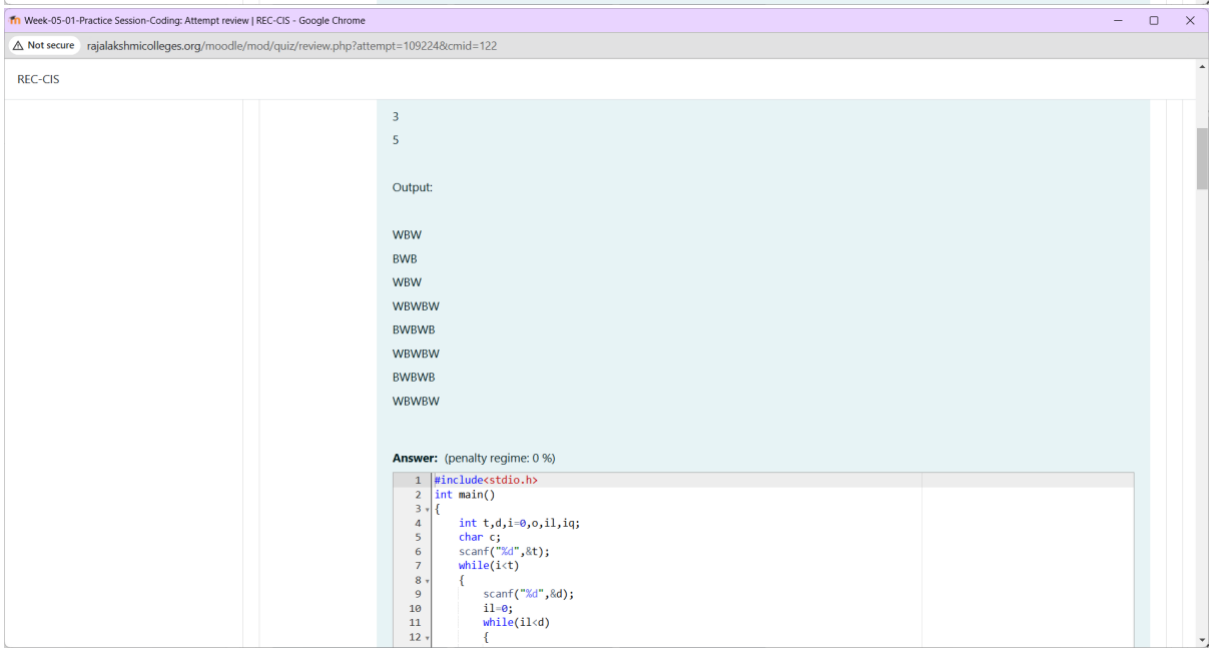
Assessment-02-Operators and Expressions, Managing
Attempts allowed: 3
This quiz has been configured so that students may only attempt it using the Safe Exam Browser.
Time limit: 2 hours
Grading method: Highest grade
Your attempts
Attempt 1
Status Finished
Started Monday, 23 December 2024, 5:33 PM
Completed Thursday, 5 December 2024, 4:37 PM
Duration 18 days
Review
The Safe Exam Browser keys could not be validated. Check that you're using Safe Exam Browser with the correct configuration file.


Week-05-01-Practice Session-Coding: Attempt review | REC-CIS - Google Chrome
Not secure
rajalakshmicolleges.org/moodle/mod/quiz/review.php?attempt=109224&cmid=122
REC-CIS
GE23131-Programming Using C-2024
Quiz navigation
1 2 3
Show one page at a time
Finish review
Status Finished
Started Monday, 23 December 2024, 5:33 PM
Completed Thursday, 5 December 2024, 4:37 PM
Duration 18 days
Question 1
Correct
Marked out of 3.00
Flag question
Write a program that prints a simple chessboard.
Input format:
The first line contains the number of inputs T.
The lines after that contain a different values for size of the chessboard
Output format:
Print a chessboard of dimensions size * size. Print a Print W for white spaces and B for black spaces.
Input:
2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REC-CIS
3
5
Output:
WBW
BWB
WBW
WBWBW
BWBWB
WBWBW
BWBWB
WBWBW
Answer: (penalty regime: 0 %)
#include<stdio.h>
int main()
{
int t,d,i=0,o,il,iq;
char c;
scanf("%d",&t);
while(i<t)
{
scanf("%d",&d);
il=0;
while(il<d)
{

Week-05-01-Practice Session-Coding: Attempt review | REC-CIS - Google Chrome

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```
        scanf("%d",&d);
        il=0;
        while(il<d)
        {
            o=1;
            iq=0;
            if(il%2==0)
            {
                o=0;
            }
            while(iq<d)
            {
                c='B';
                if(iq%2==o)
                {
                    c='W';
                }
                printf("%c",c);
                iq++;
            }
            il+=1;
            printf("\n");
        }
        i=i+1;
    }
    return 0;
}
```

	Input	Expected	Got	
✓	2 3 5	WBW BWB WBW WBWBW	WBW BWB WBW WBWBW	✓

Week-05-01-Practice Session-Coding: Attempt review | REC-CIS - Google Chrome

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REC-CIS

	BWBWB WBWBW BWBWB WBWBW	BWBWB WBWBW BWBWB WBWBW	

Passed all tests! ✓

Question **2**

Correct

Marked out of 5.00

Flag question

Let's print a chessboard!

Write a program that takes input:

The first line contains T, the number of test cases

Each test case contains an integer N and also the starting character of the chessboard

Output Format

Print the chessboard as per the given examples

Sample Input / Output

Input:

2

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REC-CIS

2 W

3 B

Output:

WB

BW

BWB

WBW

BWB

Answer: (penalty regime: 0 %)

```c
#include<stdio.h>
int main()
{
    int t,d,i,il,iq,o,z;
    char s;
    scanf("%d",&t);
    for(i=0;i<t;i++)
    {
        scanf("%d %c",&d,&s);
        for(il=0;il<d;il++)
        {
            z=(s=='W'?0:1);
            o=(il%2==z)?0:1;
            for(iq=0;iq<d;iq++)
            {
                if(iq%2==o) printf("W");
                else printf("B");
            }
            printf("\n");
        }
    }
    return 0;
}
```

	Input	Expected	Got	
✓	2 2 W 3 B	WB BW BWB WBW BWB	WB BW BWB WBW BWB	✓

Passed all tests! ✓

Question **3**

Correct

Marked out of 7.00

Flag question

Decode the logic and print the Pattern that corresponds to given input.

If N= 3

then pattern will be :

10203010011012

**4050809

Week-05-01-Practice Session-Coding: Attempt review | REC-CIS - Google Chrome

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REC-CIS

****607

If N= 4, then pattern will be:

1020304017018019020
**50607014015016
****809012013
******10011

Constraints

2 <= N <= 100

Input Format

First line contains T, the number of test cases
Each test case contains a single integer N

Output

First line print Case #i where i is the test case number
In the subsequent line, print the pattern

Test Case 1

Week-05-01-Practice Session-Coding: Attempt review | REC-CIS - Google Chrome

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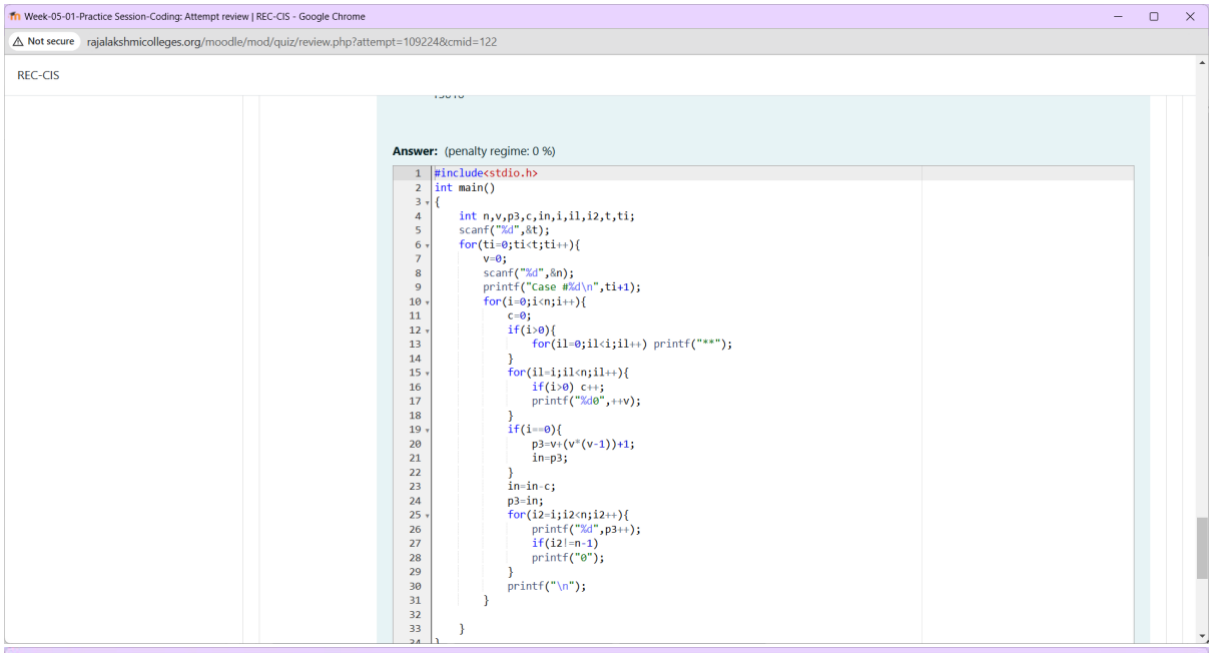
REC-CIS

Test Case 1

3
3
4
5

Output

Case #1
10203010011012
**4050809
****607
Case #2
1020304017018019020
**50607014015016
****809012013
******10011
Case #3
10203040502602702802903O
**6070809022023024025
****10011012019020021
******13014017018
********15016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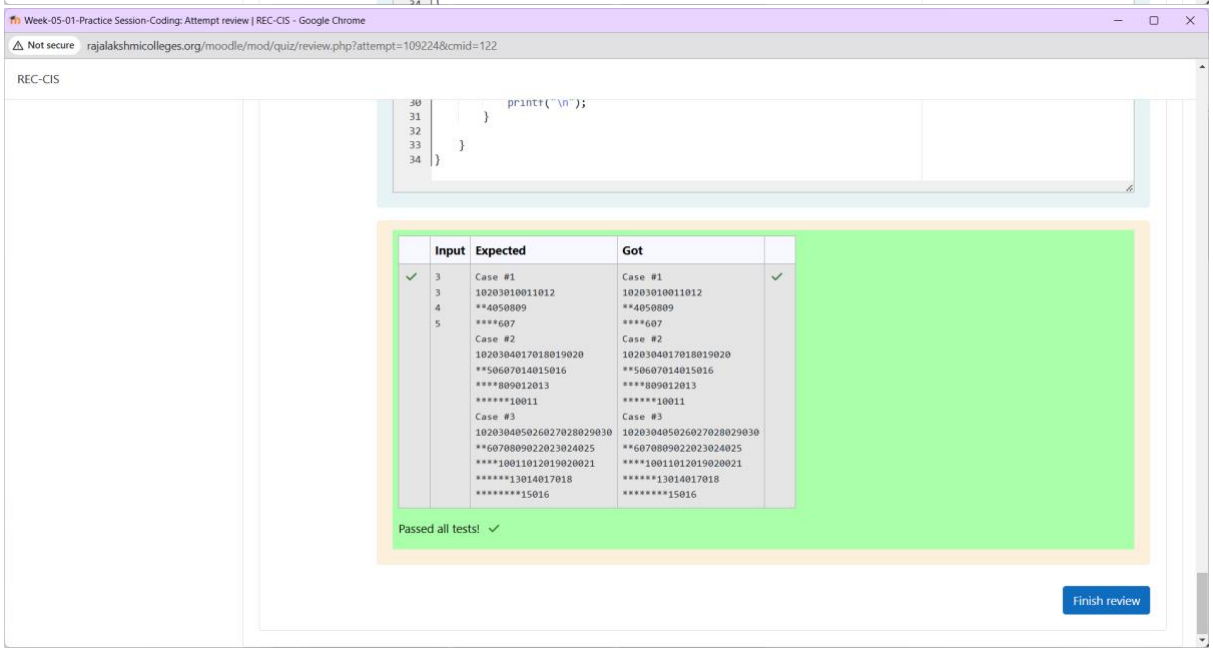
REC-CIS
Answer: (penalty regime: 0 %)
#include<stdio.h>
int main()
{
int n,v,p3,c,in,i,il,i2,t,ti;
scanf("%d",&t);
for(ti=0;ti<t;ti++){
v=0;
scanf("%d",&n);
printf("Case #%d\n",ti+1);
for(i=0;i<n;i++){
c=0;
if(i>0){
for(il=0;il<i;il++) printf("**");
}
for(il=i;il<n;il++){
if(i>0) c++;
printf("%d0",++v);
}
if(i==0){
p3=v+(v*(v-1))+1;
in=p3;
}
in=in-c;
p3=in;
for(i2=i;i2<n;i2++){
printf("%d",p3++);
if(i2!=n-1)
printf("0");
}
printf("\n");
}
}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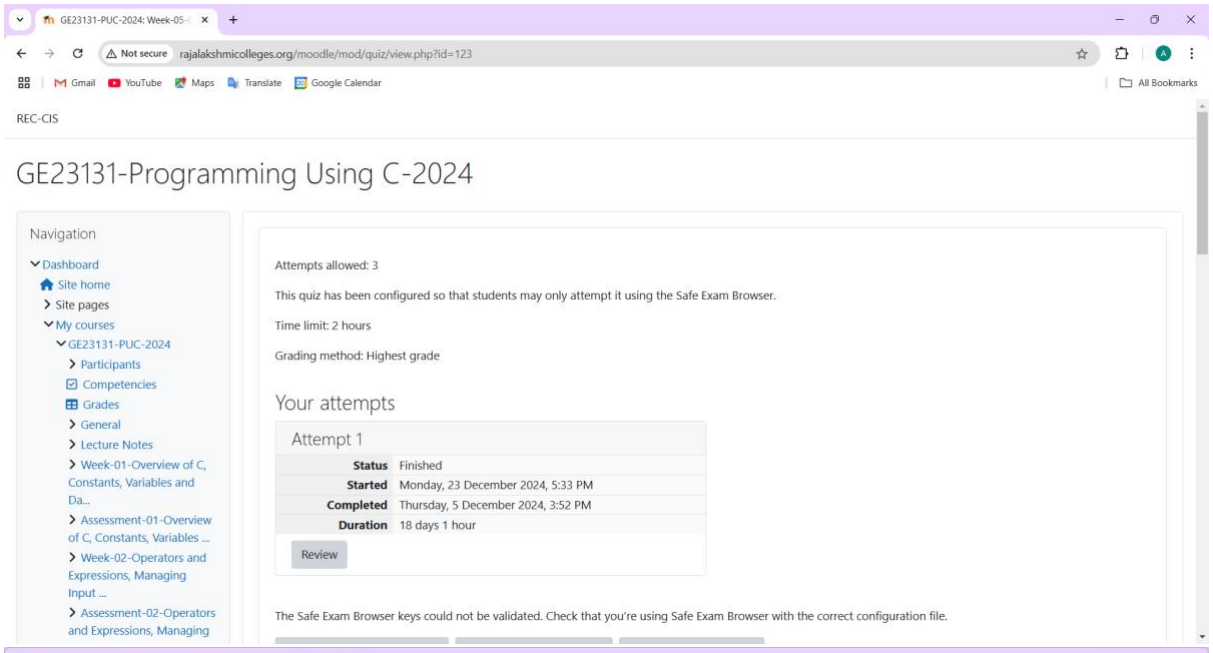
Not secure
rajalakshmicolleges.org/moodle/mod/quiz/review.php?attempt=109224&cmid=122
REC-CIS
printf("\n");
}
}
}
Input
Expected
Got
3
4
5
Case #1
10203010011012
**4050809
****607
Case #2
10203040170180190 20
**50607014015016
****809012013
******10011
Case #3
10203040502602702802903 0
**607080902202302402 5
****1001101201902002 1
******13014017018
********15016
Case #1
10203010011012
**4050809
****607
Case #2
10203040170180190 20
**50607014015016
****809012013
******10011
Case #3
10203040502602702802903 0
**607080902202302402 5
****1001101201902002 1
******13014017018
********15016
Passed all tests!
Finish review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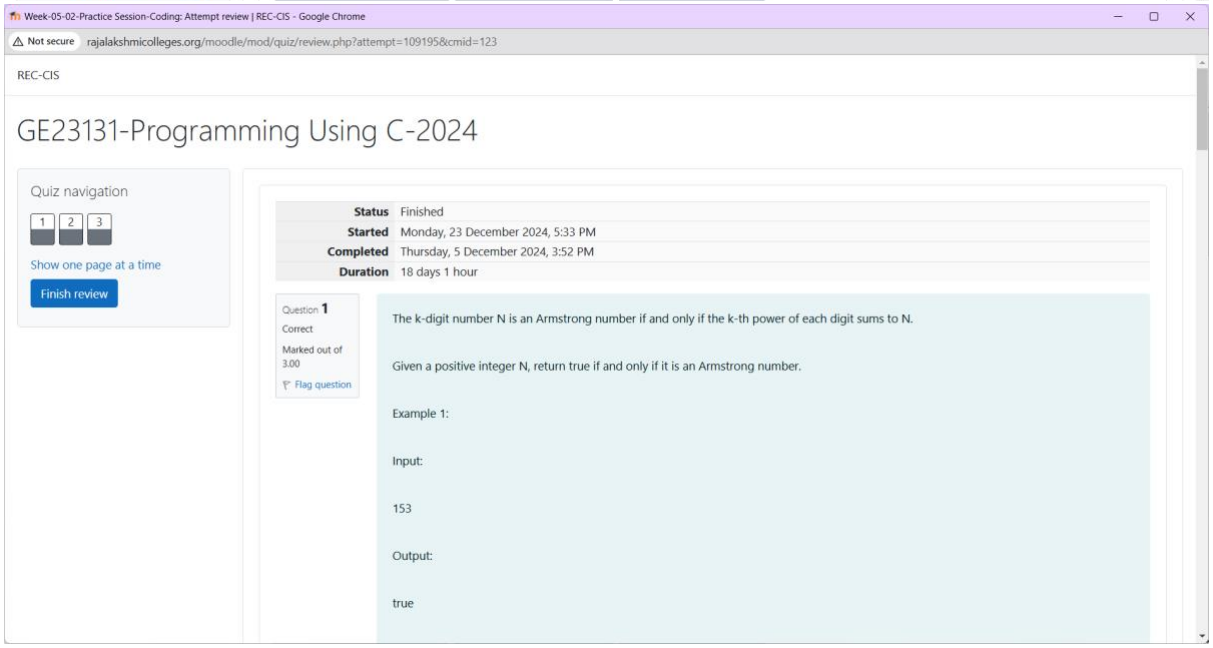
Assessment-02-Operators and Expressions, Managing
Attempts allowed: 3
This quiz has been configured so that students may only attempt it using the Safe Exam Browser.
Time limit: 2 hours
Grading method: Highest grade
Your attempts
Attempt 1
Status Finished
Started Monday, 23 December 2024, 5:33 PM
Completed Thursday, 5 December 2024, 3:52 PM
Duration 18 days 1 hour
Review
The Safe Exam Browser keys could not be validated. Check that you're using Safe Exam Browser with the correct configuration file.


Week-05-02-Practice Session-Coding: Attempt review | REC-CIS - Google Chrome
Not secure
rajalakshmicolleges.org/moodle/mod/quiz/review.php?attempt=109195&cmid=123
REC-CIS
GE23131-Programming Using C-2024
Quiz navigation
1
2
3
Show one page at a time
Finish review
Status Finished
Started Monday, 23 December 2024, 5:33 PM
Completed Thursday, 5 December 2024, 3:52 PM
Duration 18 days 1 hour
Question 1
Correct
Marked out of 3.00
Flag question
The k-digit number N is an Armstrong number if and only if the k-th power of each digit sums to N.
Given a positive integer N, return true if and only if it is an Armstrong number.
Example 1:
Input:
153
Output:
true

Week-05-02-Practice Session-Coding: Attempt review | REC-CIS - Google Chrome

Not secure rajalakshmicolleges.org/moodle/mod/quiz/review.php?attempt=109195&cmid=123

REC-CIS

Explanation:

153 is a 3-digit number, and 153 = 1^3 + 5^3 + 3^3.

Example 2:

Input:

123

Output:

false

Explanation:

123 is a 3-digit number, and 123 != 1^3 + 2^3 + 3^3 = 36.

Example 3:

Input:

1634

Week-05-02-Practice Session-Coding: Attempt review | REC-CIS - Google Chrome

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REC-CIS

Output:

true

Note:

1 <= N <= 10^8

Answer: (penalty regime: 0 %)

```c
#include<stdio.h>
#include<math.h>
int main()
{
    int n;
    scanf("%d",&n);
    int n2=n,x=0;
    while(n2!=0)
    {
        x++;
        n2=n2/10;
    }
    int sum=0;
    int n3=n,n4;
    while(n3!=0)
    {
        n4=n3%10;
        sum=sum+pow(n4,x);
        n3=n3/10;
    }
    if(n==sum)
```

Week-05-02-Practice Session-Coding: Attempt review | REC-CIS - Google Chrome

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REC-CIS

```
    {
        printf("true");
    }
    else
    {
        printf("false");
    }
    return 0;
}
```

	Input	Expected	Got	
✓	153	true	true	✓
✓	123	false	false	✓

Passed all tests! ✓

Question **2**

Correct

Marked out of 5.00

Flag question

Take a number, reverse it and add it to the original number until the obtained number is a palindrome. Constraints 1<=num<=99999999 Sample Input 1 32 Sample Output 1 55 Sample Input 2 789 Sample Output 2 66066

Answer: (penalty regime: 0 %)

```
#include<stdio.h>
int main()
{
    int rn,n,nt=0,i=0;
    scanf("%d",&n);
    do{
        nt=n;rn=0;
        while(n!=0)
        {
            rn=rn*10+n%10;
            n=n/10;
        }
        n=nt+rn;
        i++;
    }
    while(rn!=nt||i==1);
    {
        printf("%d",rn);
    }
    return 0;
}
```

	Input	Expected	Got	
✓	32	55	55	✓
✓	789	66066	66066	✓

Passed all tests! ✓

Question **3**

Correct

Marked out of 7.00

Flag question

A number is considered lucky if it contains either 3 or 4 or 3 and 4 both in it. Write a program to print the nth lucky number. Example, 1st lucky number is 3, and 2nd lucky number is 4 and 3rd lucky number is 33 and 4th lucky number is 34 and so on. Note that 13, 40 etc., are not lucky as they have other numbers in it.

The program should accept a number 'n' as input and display the nth lucky number as output.

Week-05-02-Practice Session-Coding: Attempt review | REC-CIS - Google Chrome

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REC-CIS

Sample Input 1:

3

Sample Output 1:

33

Explanation:

Here the lucky numbers are 3, 4, 33, 34., and the 3rd lucky number is 33.

Sample Input 2:

34

Sample Output 2:

33344

Week-05-02-Practice Session-Coding: Attempt review | REC-CIS - Google Chrome

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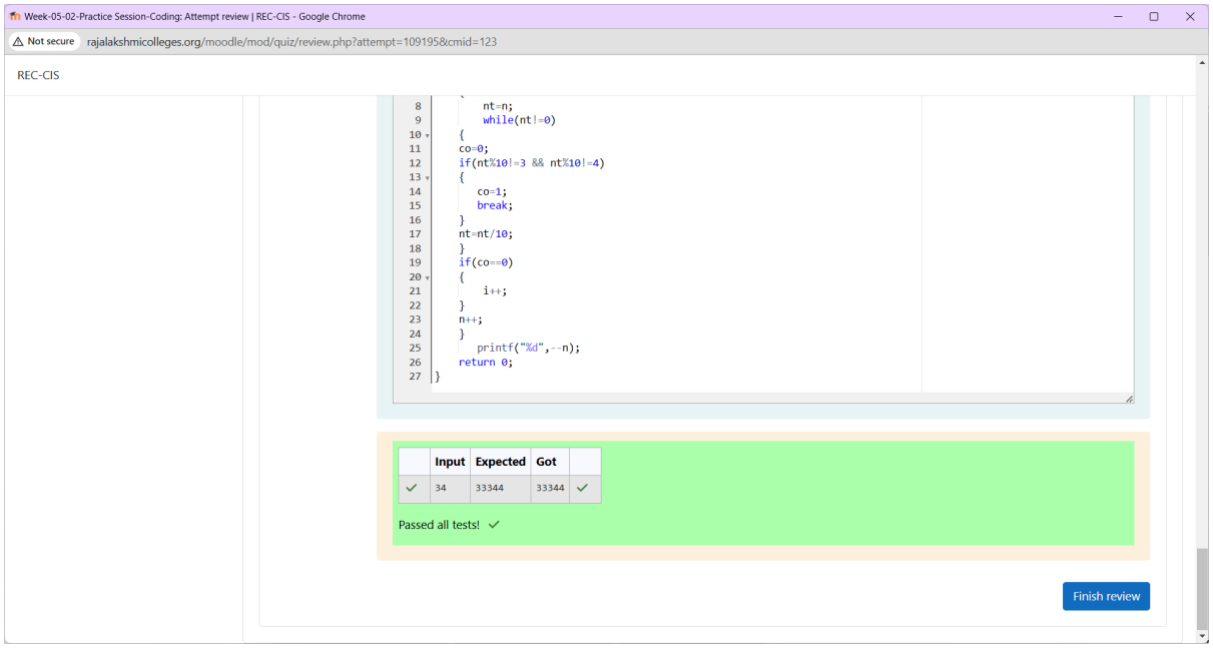
REC-CIS

Answer: (penalty regime: 0 %)

```c
#include<stdio.h>
int main()
{
    int n=1,i=0,nt,co=0,e;
    scanf("%d",&e);
    while(i<e)
    {
        nt=n;
        while(nt!=0)
    {
    co=0;
    if(nt%10!=3 && nt%10!=4)
    {
        co=1;
        break;
    }
    nt=nt/10;
    }
    if(co==0)
    {
        i++;
    }
    n++;
    }
       printf("%d",--n);
    return 0;
}
```


Week-05-02-Practice Session-Coding: Attempt review | REC-CIS - Google Chrome
Not secure
rajalakshmicolleges.org/moodle/mod/quiz/review.php?attempt=109195&cmid=123
REC-CIS
nt=n;
while(nt!=0)
{
co=0;
if(nt%10!=3 && nt%10!=4)
{
co=1;
break;
}
nt=nt/10;
}
if(co==0)
{
i++;
}
n++;
}
printf("%d",--n);
return 0;
}
Input
Expected
Got
34
33344
33344
Passed all tests!
Finish review