Week-05-01-Practice Session-Coding: Attempt review (page 1 of 3) | REC-CIS - Personal - Microsoft Edge

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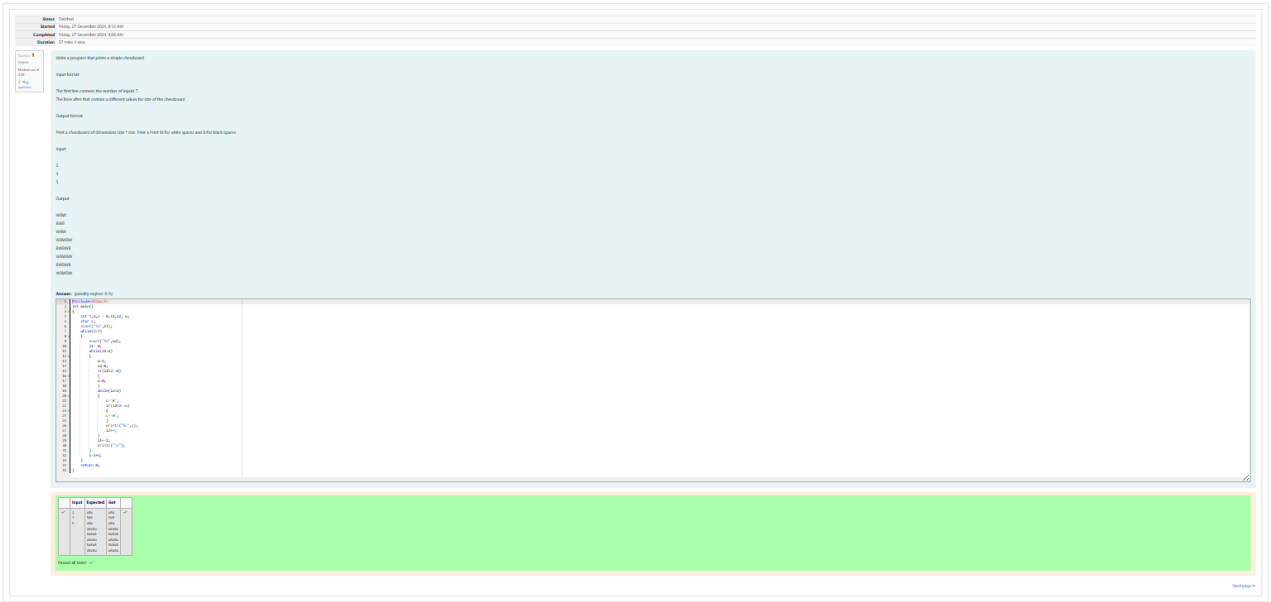
GE23131-Programming Using C-2024



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GE23131-Programming Using C-2024

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Finish review

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
2 W
3 B
```

Output:

```
WB
BW
BWB
WBW
BWB
```

Answer: (penalty regime: 0 %)

```
#include<stdio.h>
int main()
{
    int T,d,i,ii,j,n,c;
    char r,s;
    scanf("%d",&T);
    for(i=0;i<T;i++)
    {
        scanf("%d %c",&d,&s);
        for(ii=0;ii<d;ii++)
        {
            r=(s=='W')?0:1;
            c=(ii%2==r)?0:1;
            for(j=0;j<d;j++)
            {
                c=(j%2==c)?'W':'B';
                printf("%c",c);
            }
            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! ✓

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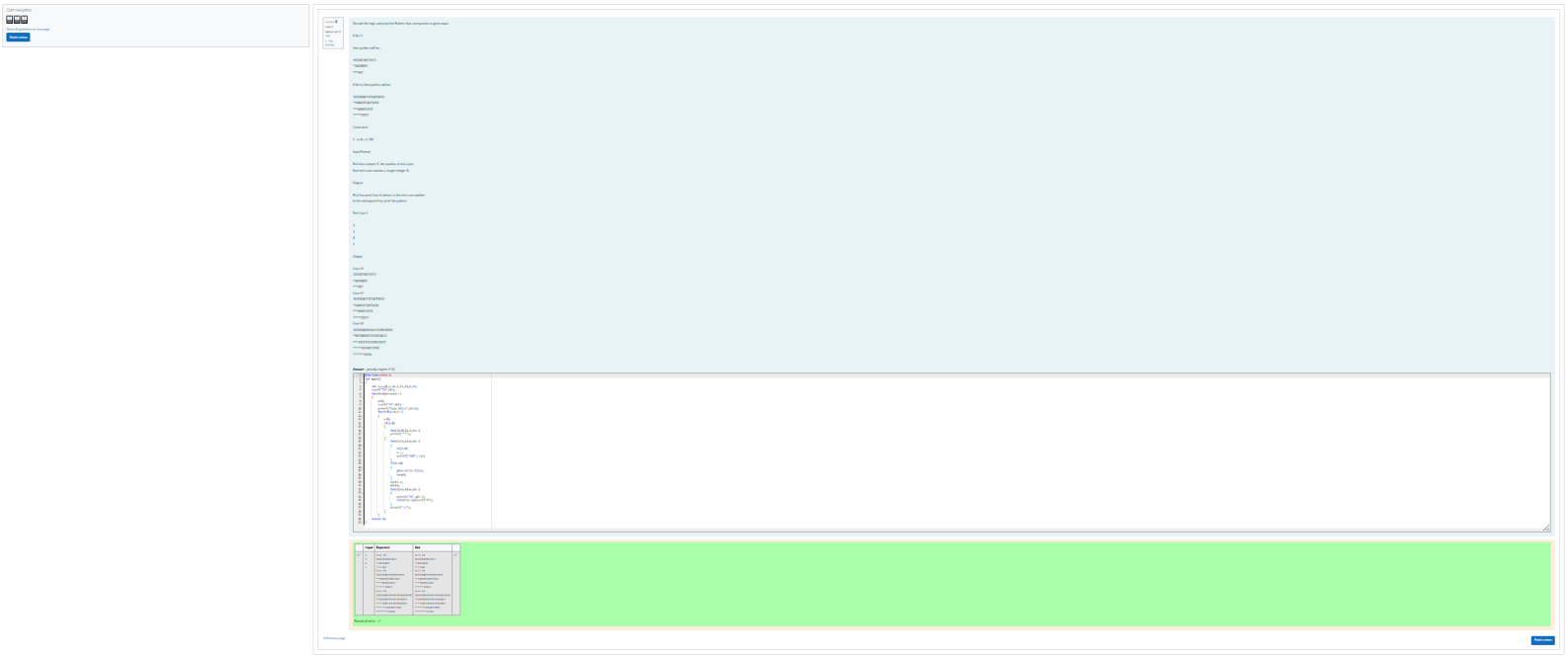

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State Finished
Started Monday, 13 January 2025, 2:56 PM
Completed Monday, 13 January 2025, 2:56 PM
Duration 19 min 32 secs

Question 1
Correct
Mark 1.00 out of 1.00
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

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

Output:

true

Note:

1 <= N <= 10^8

Answer: (penalty regime: 0 %)

```
#include<stdio.h>
#include<math.h>
int main()
{
    int n;
    scanf("%d",&n);
    int a,dig=0,s=0;
    while(n!=0)
    {
        dig++;
        n=n/10;
    }
    int num=n;
    while(n!=0)
    {
        int rem=n%10;
        sum=sum+pow(rem,dig);
        n=n/10;
    }
    if(s==num)
    {
        printf("true");
    }
    else
    {
        printf("false");
    }
    return 0;
}
```

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

Passed all tests! ✓

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Activate Windows
Go to Settings to activate Windows.

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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 %)

```c
#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! ✓

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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.

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

Answer: (penalty regime: 0 %)

```c
#include<stdio.h>
int main()
{
    int n=1,i=0,nt,co=0,r;
    scanf("%d",&n);
    while(i<n)
    {
        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! ✓

Activate Windows
Go to Settings to activate Windows.

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