

Week 5

Mahathi.b

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Csd

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

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## 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: Friday, 13 December 2024, 11:43 AM

Duration: 10 days 5 hours

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

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     int T, d, i=0, il, i2, o;
5     char c;
6     scanf("%d", &T);
7     while (i<T)
8     {
9         scanf ("%d",&d);
10        il=0;
11        while (il<d)
12        {
13            o=1; i2=0;
14            if (il%2==0)
15            {
16                o=0; }
17            while (i2<d)
18            {
19                c='B';
20                if (i2%2==0)
21                {
22                    c='W';
23                }
24                printf ("%c",c);
25                i2++;
26                il++;
27                printf("\n");
28            }
29            i=i+1;
30        }
31    }
32 }
33
34
```

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

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Question 2  
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[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

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Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     int t,d,i,i1,i2,o,z;
5     char c,s;
6     scanf("%d",&t);
7     for (i=0;i<t;i++)
8     {
9
10        scanf("%d %c",&d,&s);
11        for(i1=0;i1<d;i1++)
12        {
13            z=(s=='W')?0:1;
14            o=(i1%2==0)?0:1;
15            for (i2=0;i2<d;i2++)
16            {
17                c=(i2%2==0)? 'W' : 'B';
18                printf("%c",c);
19            }
20            printf("\n");
21        }
22    }
23    return 0;
24 }
```

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

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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
****607
```

If N= 4, then pattern will be:

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

Constraints

$2 \leq N \leq 100$

Input Format

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Answer: (penalty regime: 0 %)

```
1 #include <stdio.h>
2 int main()
3 {
4     int n, v, p3, c, in, i, l1, l2, t, ti;
5     scanf ("%d", &t);
6     for (ti=0; ti<t; ti++)
7     {
8         v=0;
9         scanf ("%d", &n);
10        printf ("Case #d\n", ti+1);
11        for (i=0; i<n; i++)
12        {
13            c=0;
14            if (i>0)
15            {
16                for (l1=0; l1<i; l1++)
17                    printf ("***");
18            }
19            for (l1=i; l1<n; l1++)
20            {
21                if (i>0)
22                    c++;
23                printf ("%d0", ++v);
24            }
25            if (i==0)
26            {
27                p3=v+(v*(v-1))+1;
28                in=p3;
29            }
30            in=in-c;
31            p3=in;
32            for (l2=i; l2<n; l2++)
33            {
34                printf ("%d", p3++);
35                if (l2!=n-1)
36                    printf ("0");
37            }
38            printf ("\n");
39        }
40    }
41 }
42
43
```

	Input	Expected	Got	
✓	3	Case #1	Case #1	✓
	3	10203010011012	10203010011012	
	4	**4050809	**4050809	
	5	****607	****607	
		Case #2	Case #2	
		1020304017010019020	1020304017010019020	
		**50607014015016	**50607014015016	
		****809012013	****809012013	
		*****10011	*****10011	
		Case #3	Case #3	
		102030405026027028029030	102030405026027028029030	
		**6070809022023024025	**6070809022023024025	
		****10011012019020021	****10011012019020021	
		*****13014017018	*****13014017018	
		*****15016	*****15016	

Windows taskbar: 25°C Mostly cloudy, 02:20 16-01-2025

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

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## 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	Friday, 20 December 2024, 10:48 AM
Duration	3 days 6 hours

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

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Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 #include<math.h>
3 int main()
4 {
5     int n;
6     scanf("%d",&n);
7     int x=0, n2=n;
8     while (n2!=0)
9     {
10         x++;
11         n2=n2/10;
12     }
13     int sum=0;
14     int n3=n,n4;
15     while (n3!=0)
16     {
17         n4=n3%10;
18         sum = sum + pow ( n4 , x );
19         n3=n3/10;
20     }
21     if (n==sum)
22     {
23         printf("true");
24     }
25     else
26     {
27         printf("false");
28     }
29     return 0;
30 }
31
```

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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  $1 \leq \text{num} \leq 99999999$   
Sample Input 1 32 Sample Output 1 55 Sample Input 2 789 Sample Output 2 66066

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     int rn , n , nt=0, i=0 ;
5     scanf("%d", &n);
6     do{
7         nt= n; rn=0;
8         while (n!=0)
9         {
10             rn=rn*10+n%10;
11             n=n/10;
12         }
13         n=nt+rn;
14         i++;
15     }
16     while(rn!=nt||i==1);
17     printf("%d",rn);
18     return 0;
19 }
```

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

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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:

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Answer: (pratiksha reddy) 0.70

```
1 #include<stdio.h>
2 int main()
3 {
4     int n=1, i=0, nt, co=0,e;
5     scanf("%d",&e);
6     while(i<e)
7     {
8         nt=n;
9         while(nt!=0)
10        {
11            co=0;
12            if (nt%10!=3 && nt%10!=4)
13            {
14                co=1;
15                break;
16            }
17            nt=nt/10;
18        }
19        if (co==0)
20        {
21            i++;
22        }
23        n++;
24    }
25    printf("%d",--n);
26    return 0;
27 }
```

	Input	Expected	Got	
✓	34	33344	33344	✓

Passed all tests! ✓