

GE23131-Programming Using C-2024

1 2 3

Finish review

Status	Finished
Started	Monday, 23 December 2024, 5:33 PM
Completed	Friday, 29 November 2024, 9:48 AM
Duration	24 days 7 hours

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:

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

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2
3
5

Output:

WBW
BWB
WBW
WBWBW
BWBWB
WBWBW
BWBWB
WBWBW

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     int T;
5     scanf("%d",&T);
6     for(int t=0;t<T;t++){
7         int size;
8         scanf("%d",&size);
9         for(int i=0;i<size;i++){
10             for(int j=0;j<size;j++){
```

14:35
14-01-2025

REC-CIS

```

11 |         if((i+j)%2==0){
12 |             printf("W");
13 |         }
14 |         else{
15 |             printf("B");
16 |         }
17 |     }
18 |     printf("\n");
19 | }
20 |
21 | return 0;
22 | }
    
```

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

Passed all tests! ✓

Question 2
Correct

Marked out of 1

Let's print a chessboard!

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Flag question

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

Type here to search

14:35
14-01-2025

REC-CIS

```

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

```

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

Passed all tests ✓

Question 3

Correct

Marked out of 7.00

Flag question

If $N = 3$

10203010011012

*4050809

★☆☆☆ 607

1020304017018019020

*x50607014015016

***809012013

大大大大大大10011

Constraints

 $2 \leq N \leq 100$

Input Format

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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

3
3
4
5

Output

Case #1
10203010011012
**4050809
***607
Case #2

Type here to search

14:36
14-01-2025

REC-CIS

```
1020304017018019020
**50607014015016
****809012013
*****10011
Case #3
102030405026027028029030
**6070809022023024025
****10011012019020021
*****13014017018
*****15016
```

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main(){
3     int n,v,p3,c,in,i,il,i2,t,ti;
4     scanf("%d",&t);
5     for(ti=0; ti<t; ti++){
6         v=0;
7         scanf("%d",&n);
8         printf("Case #d\n",ti+1);
9         for(i=0;i<n;i++){
10            c=0;
11            if(i>0){
12                for(il=0;il<i;il++)printf("***");
13            }
14            for(il=i; il<n; il++){
15                if(i>0) c++;
16                printf("%d0",++v);
17            }
```


REC-CIS

```
18 }
19 if(l==0){
20     p3=v+(v*(v-1))+1;
21     in=p3;
22 }
23 in=in-c;
24 p3=in;
25 for(i2=i;i2<n;i2++){
26     printf("%d",p3++);
27     if(i2!=n-1)printf(" ");
28 }printf("\n");
29 }
30 }
31 }
```

	Input	Expected	Got	
✓	3	Case #1	Case #1	✓
	3	10203010011012	10203010011012	
	4	**4050809	**4050809	
	5	****607	****607	
		Case #2	Case #2	
		1020304017018019020	1020304017018019020	
		**50607014015016	**50607014015016	
		***809012013	***809012013	
		*****10011	*****10011	
		Case #3	Case #3	
		102030405026027028029030	102030405026027028029030	
		**6070809022023024025	**6070809022023024025	
		***10011012019020021	***10011012019020021	
		*****13014017018	*****13014017018	
		*****15016	*****15016	

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Quiz navigation



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Finish review

Status	Finished
Started	Monday, 23 December 2024, 5:33 PM
Completed	Thursday, 5 December 2024, 10:55 AM
Duration	18 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

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

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		<p>Explanation:</p> <p>153 is a 3-digit number, and $153 = 1^3 + 5^3 + 3^3$.</p> <p>Example 2:</p> <p>Input:</p> <p>123</p> <p>Output:</p> <p>false</p> <p>Explanation:</p> <p>123 is a 3-digit number, and $123 \neq 1^3 + 2^3 + 3^3 = 36$.</p> <p>Example 3:</p> <p>Input:</p> <p>1534</p>
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REC-CIS

Output:

true

Note:

$1 \leq N \leq 10^8$

Answer: (penalty regime: 0 %)

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

REC-CIS

```
23 }
24 }
25 return 0;
26 }
```

	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 $1 \leq \text{num} \leq 99999999$
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     int rn,n,nt=0,i=0;
4     scanf("%d",&n);
5     do{
6         nt=n;rn=0;
7         while(n!=0){
8             rn=rn*10+n%10;
9             n=n/10;
10        }
11        n=nt + rn;
12    }
```

REC-CIS

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

	Input	Expected	Got	
✓	34	33344	33344	✓

Passed all tests. ✓

REC-CIS

```
13     i++;
14
15 }
16 while(rn!=nt || i--1);
17 printf("%d",rn);
18 return 0;
19 }
```

	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.

Sample Input 1:

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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

Type here to search

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REC-CIS

```

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

```

	Input	Expected	Got	
✓	34	33344	33344	✓

Passed all tests! ✓