

# GE23131-Programming Using C-2024

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Status	Finished
Started	Monday, 23 December 2024, 5:33 PM
Completed	Friday, 6 December 2024, 12:12 AM
Duration	17 days 17 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 a

Input:

2  
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,i1,i2,o;
    char c;
    scanf("%d",&T);
    while(i<T){
        scanf("%d",&d);
        i1=0;
        while(i1<d){
            o=1;
            i2=0;
            if(i1%2==0){
                o=0;
            }
            while(i2<d){
                c='B';
                if(i2%2==0){
                    c='W';
                }
                printf("%c",c);
                i2++;
            }
            i1++;
            printf("\n");
            i=i+1;
        }
    }
```

REC-CIS

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

### 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,1,1,2,0,z;
    char c,s;
    scanf("%d",&T);
    for (i=0;i<T;i++){
        scanf("%d %c",&d,&s);

        for(f1=0;i1<d;i1++){
            z=(s=="1")?0:1;
            o=(1%2==z)?0:1;
            for(f2=0;i2<d;i2++){
                c=(i2%2==0)?'W':'B';
                printf("%c",c);
            }
            printf("\n");
        }
    }
    return 0;
}
```

REC-CIS

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

\*\*\*\*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

3

3

4

5

Output

Case #1

10203010011012

\*\*4050809

\*\*\*\*607

REC-CIS

Case #2  
1020304017018019020  
\*\*50607014015016  
\*\*\*\*809012013  
\*\*\*\*\*10011

Case #3  
102030405026027028029030  
\*\*6070809022023024025  
\*\*\*\*10011012019020021  
\*\*\*\*\*13014017018  
\*\*\*\*\*15016

Answer : (penalty regime: 0 %)

```
#include <stdio.h>
int main() {
    int n, v, p3, c, i, j, l1, l2, t, ti;
    scanf("%d", &n);
    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;
            for (j = 0; j < i; j++) printf("***");
        }
        for (j = i; j < n; j++) {
            if (i > 0 && c++)
                printf("%d", v);
        }
        if (i == 0) {
            p3 = v + (v * (v - 1)) + 1;
            i = p3;
        }
        i = i - c;
        p3 = i;
        for (j = i; j < n; j++) {
            printf("%d", p3);
            if (j == n - 1) printf("\n");
        }
        printf("\n");
    }
    return 0;
}
```

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

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