# GE23131-Programming Using C-2024

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| **Status** | Finished |
| **Started** | Monday, 23 December 2024, 5:33 PM |
| **Completed** | Friday, 29 November 2024, 1:08 PM |
| **Duration** | 24 days 4 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

3

Output:

WBW

BWB

WBW

WBWBW

BWBWB

WBWBW

BWBWB

WBWBW

**Answer:** (penalty regime: 0 %)

```c
#include<stdio.h>
int main(){
    int n;
    scanf("%d",&n);
    while(n--){
        int i;
        scanf("%d",&i);
        for(int j=1;j<=i;j++){
            if(j%2!=0){
                int c=1;
                char a = 'W';
                while(c<=i){
                    printf("%c",a);
                    a=(a=='W')?'B':'W';
                    c++;
                }
                printf("\n");
            }
            else{
```

```
24              printf("%c",z);
25              z=(z=='W')?'B':'W';
26              m++;
27          }
28          printf("\n");
29        }
30      }
31    }
32  }
33
```

| | Input | Expected | Got | |
|---|---|---|---|---|
| ✓ | 2<br>3<br>5 | WBW<br>BWB<br>WBW<br>WBWBW<br>BWBWB<br>WBWBW<br>BWBWB<br>WBWBW | WBW<br>BWB<br>WBW<br>WBWBW<br>BWBWB<br>WBWBW<br>BWBWB<br>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

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 %)

```c
1  #include<stdio.h>
2  int main(){
3      int n;
4      scanf("%d",&n);
5      while(n--){
```

```c
            for(int j=1;j<=i;j++){
                if(ch == 'W'){
                    char a='W';
                    int c =1;
                    while(c<=i){
                        printf("%c",a);
                        a=(a=='W')?'B':'W';
                        c++;
                    }
                    ch=(ch=='W')?'B':'W';
                    printf("\n");
                }
                else{
                    char z='B';
                    int m=1;
                    while(m<=i){
                        printf("%c",z);
                        z=(z=='W')?'B':'W';
                        m++;
                    }
                    ch=(ch=='w')?'B':'W';
                    printf("\n");
                }
            }
        }
}
```

| | Input | Expected | Got | |
|---|---|---|---|---|
| ✓ | 2<br>2 W<br>3 B | WB<br>BW<br>BWB<br>WBW<br>BWB | WB<br>BW<br>BWB<br>WBW<br>BWB | ✓ |

## 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

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

1020304017018019020

**50607014015016

****809012013

******10011

**6070809022023024025

****10011012019020021

******13014017018

********15016

**Answer:** (penalty regime: 0 %)

```c
#include<stdio.h>
int main(){
    int n,v,p3,c,in,i,i1,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(i1=0;i1<i;i1++)
                    printf("**");
            }
            for(i1=i;i1<n;i1++){
                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");

        }
```

| | Input | Expected | Got | |
|---|---|---|---|---|
| ✓ | 3<br>3<br>4<br>5 | Case #1<br>10203010011012<br>**4050809<br>****607<br>Case #2<br>1020304017018019020<br>**50607014015016<br>****809012013<br>******10011<br>Case #3<br>10203040502602702802903 0<br>**6070809022023024025<br>****10011012019020021<br>******13014017018<br>********15016 | Case #1<br>10203010011012<br>**4050809<br>****607<br>Case #2<br>1020304017018019020<br>**50607014015016<br>****809012013<br>******10011<br>Case #3<br>10203040502602702802903 0<br>**6070809022023024025<br>****10011012019020021<br>******13014017018<br>********15016 | ✓ |

Passed all tests! ✓

Finish review