

# GE23131-Programming Using C-2024

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Status	Finished
Started	Monday, 23 December 2024, 5:33 PM
Completed	Thursday, 5 December 2024, 9:47 AM
Duration	18 days 7 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 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     int v;
5     scanf("%d",&v);
6     while(v>0){
7         int x;
8         scanf("%d",&x);
9         if(x<0)
10        {
11            x=-x;
12        }
13        char a='W';
14        for(int i=0;i<x;i++){
15            for(int j=0;j<x;j++){
16                printf("%c",a);
17                if(a=='W')
18                    a='B';
19                else
20                    a='W';
21            }
22        }
23    }
```

```
24         if(a=='W')
25             a='B';
26         else
27             a='W';
28     }
29 }
30 v--;
31 }
32
33
34 }
```

	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  
5.00

🚩 Flag question

Let’s print a chessboard!

Write a program that takes input:

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 %)


```
1 #include<stdio.h>
2 int main()
3 {
4     int t,n;
```

```
7 while(1)
8 {
9     scanf("%d %c",&n,&ch);
10    for(int i=0;i<n;i++)
11    {
12        for(int j=0;j<n;j++)
13        {
14            if(ch=='W')
15            {
16                if((i+j)%2==0)
17                    printf("W");
18                else
19                    printf("B");
20            }
21            else
22            {
23                if((i+j)%2==0)
24                    printf("B");
25                else
26                    printf("W");
27            }
28        }
29        printf("\n");
30    }
31 }
32 return 0;
33 }
```

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

$2 \leq N \leq 100$

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 %)

```
1  #include<stdio.h>
2  int main()
3  {
4      int t,n,x,y,z=1,i,ans,c;
5      scanf("%d",&t);
6      while(z<=t)
7      {
8          scanf("%d",&n);
9          printf("Case #d\n",z);
10         y=1;
11         i=1;
12         c=0;
13         while(y<=n)
14         {
15             x=1;
16             ans=n*n;
17             ans=ans-c;
18             while(x<=2*n)
19             {
20                 if(x<=n)
21                 {
22                     if(x<y)
23                         printf("**");
24                     else if(x<=n)
25                     {
26                         printf("%d",i*10);
27                         i++;
28                     }
29                 }
30                 else
```



```
34         printf("%d", (ans+y));
35         ans++;
36         c++;
37     }
38     else if(x+y <= (2*n)+1)
39     {
40         printf("%d", (ans+y)*10);
41         ans++;
42         c++;
43     }
44 }
45 x++;
46 }
47 y++;
48 printf("\n");
49 }
50 z++;
51 }
52 return 0;
```

	Input	Expected	Got	
--	-------	----------	-----	--

4  
5

\*\*4050809  
\*\*\*\*607  
Case #2  
1020304017018019020  
\*\*50607014015016  
\*\*\*\*809012013  
\*\*\*\*\*10011  
Case #3  
102030405026027028029030  
\*\*6070809022023024025  
\*\*\*\*10011012019020021  
\*\*\*\*\*13014017018  
\*\*\*\*\*15016

\*\*4050809  
\*\*\*\*607  
Case #2  
1020304017018019020  
\*\*50607014015016  
\*\*\*\*809012013  
\*\*\*\*\*10011  
Case #3  
102030405026027028029030  
\*\*6070809022023024025  
\*\*\*\*10011012019020021  
\*\*\*\*\*13014017018  
\*\*\*\*\*15016

Passed all tests! ✓

Finish review