

# GE23131-Programming Using C-2024

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Status	Finished
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Question 1

Correct

Marked out of 3.00

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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  
5

Output:

WBW  
BWB  
WBW  
WBWBW  
BWBWB  
WBWBW  
BWBWB  
WBWBW

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     int n,size,i,j,count;
5     scanf("%d",&n);
6     while(n-->0)
7     {
8         scanf("%d",&size);
9         count =0;
10        for(i=0;i<size;i++)
11        {
12            for(j=0;j<size;j++)
13            {
14                if(++count%2==1)
15                    printf("W");
16                else
17                    printf("B");
18            }
19            if(size%2==0)
20                count++;
21            printf("\n");
22        }
23    }
24 }
```

	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:

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

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

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

```

33         print("\n");
34     }
35 }
36 return 0;
37 }

```

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

Case #2

1020304017018019020

\*\*50607014015016

\*\*\*\*809012013

\*\*\*\*\*10011

Case #3

102030405026027028029030

\*\*6070809022023024025

\*\*\*\*10011012019020021

\*\*\*\*\*13014017018

\*\*\*\*\*15016

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

```
1 #include<stdio.h>
2 int main()
3 {
4     int t;
5     scanf("%d",&t);
6     for(int x=1;x<=t;x++)
7     {
8         printf("Case #%d\n",x);
9         int i=1;
10        while(i<=t)
11        {
12            printf("%d",i);
13            if(i%10!=0)
14                printf(" ");
15            i++;
16        }
17        printf("\n");
18    }
19 }
```

```

9      int n;
10     scanf("%d",&n);
11     int f=1,b=n*(n+1);
12     for(int i=0;i<n;i++)
13     {
14         for(int k=0;k<2*i;k++)
15         {
16             printf("*");
17         }
18         printf("%d",f);
19         f++;
20         for(int j=2;j<=n-i;j++)
21         {
22             printf("0%d",f);
23             f++;
24         }
25         for(int l=b-(n-i)+1;l<=b;l++)
26         {
27             printf("0%d",l);
28         }
29         b=n-i;
30         printf("\n");
31     }
32 }
33 return 0;
34 }
35
36

```

	Input	Expected	Got	
✓	3	Case #1	Case #1	✓
	3	10203010011012	10203010011012	
	4	**4050809	**4050809	
	5	***007	***007	
		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	

Passed all tests! ✓

Finish review