

# GE23131-Programming Using C-2024

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Status	Finished
Started	Monday, 23 December 2024, 5:33 PM
Completed	Friday, 13 December 2024, 6:16 PM
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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  
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     ...
```

```

0  *
1  *
2  *
3  *
4  *
5  *
6  *
7  *   while(n--){
8  *       scanf("%d",&size);
9  *       count=0;
10 *       for(i=0;i<size;i++){
11 *           for(j=0;j<size;j++){
12 *               if(++count%2)
13 *                   printf("W");
14 *               else
15 *                   printf("B");
16 *           }
17 *       if(size%2==0)
18 *           count++;
19 *       printf("\n");
20 *   }
21 * }

```

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

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 T,d,i,i1,i2,z,o;
5     char c,s;
6     scanf("%d",&T);
7     for(i=0;i<T;i++){
8         scanf("%d %c",&d,&s);
9         for(i1=0;i1<d;i1++){
10             z=(s=='W')?0:1;
11             o=(i1%2==z)?0:1;
12             for(i2=0;i2<d;i2++){
13                 c=(i2%2==o)?'W':'B';
14                 printf("%c",c);
15             }
16             printf("\n");
17         }
18     }
19     return 0;
20 }
```

	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

$2 \leq N \leq 100$

#### 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     int n,v,p3,c,in,i,i1,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(i1=0;i1<i;i1++){
13                     printf("**");
14                 }
15                 for(i1=i;i1<n;i1++){
16                     if(i>0)
17                         c++;
18                     printf("%d0",++v);
19                 }
20                 if(i==0){
21                     p3=v+(v*(v-1))+1;
22                     in=p3;
23                 }
24                 in=in-c;
25                 p3=in;
26                 for(i2=i;i2<n;i2++){
27                     {printf("%d",p3++);
28                     if(i2!=n-1)
29                         printf("0");
30                     }
31                 printf("\n");
32             }
33         }
34     }
```

	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	

Passed all tests! ✓

Finish review

