

# GE23131-Programming Using C-2024

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Status	Finished
Started	Monday, 23 December 2024, 5:33 PM
Completed	Monday, 9 December 2024, 11:22 PM
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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 T,size,i,j;
5     scanf("%d",&T);
6     while(T-->0)
7     {
8         scanf("%d",&size);
9         for(i=0;i<size;i++)
10        {
11            for(j=0;j<size;j++)
12            {
13                if((i+j)%2==0){
14                    printf("W");
15                }
16                else{
17                    printf("B");
18                }
19            }
20            printf("\n");
21        }
22    }
23    return 0;
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 T,N,i,j;
5     char ch;
6     scanf("%d",&T);
7     while(T-->0)
8     {
9         scanf("%d %c",&N,&ch);
10        for(i=0;i<N;i++)
```

```

11  {
12      for(j=0;j<N;j++)
13      {
14          printf("%c",ch);
15          ch=(ch=='W')?'B':'W';
16      }
17      printf("\n");
18      if(N%2==0)
19      {
20          ch=(ch=='W')?'B':'W';
21      }
22  }
23  }
24  return 0;
25  }

```

	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 {
4     int t;
5     scanf("%d",&t);
6     for(int x=1;x<=t;x++)
7     {
8         printf("Case #%d\n",x);
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 }
```

	Input	Expected	Got	
✓	3	Case #1	Case #1	✓
	3	10203010011012	10203010011012	
	4	***050900	***050900	

4	****4030809	****4030809
5	****607 Case #2 1020304017018019020 **50607014015016 ****809012013 *****10011 Case #3 102030405026027028029030 **6070809022023024025 ****10011012019020021 *****13014017018 *****15016	****607 Case #2 1020304017018019020 **50607014015016 ****809012013 *****10011 Case #3 102030405026027028029030 **6070809022023024025 ****10011012019020021 *****13014017018 *****15016

Passed all tests! ✓

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