

GE23131-Programming Using C-2024

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Question **1**

Correct

Marked out of 3.00

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Status	Finished
Started	Tuesday, 24 December 2024, 8:20 AM
Completed	Tuesday, 24 December 2024, 8:39 AM
Duration	19 mins 29 secs

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

	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,d,i,i1,i2,o,z;
5     char c,s;
6     scanf("%d",&T);
7     for(i=0;i<T;i++)
8     {
9         scanf("%d %c",&d,&s);
10        for(i1=0;i1<d;i1++)
11        {
12            z=(s=='W')?0:1;
13            o=(i1%2==z)?0:1;
14            for(i2=0;i2<d;i2++)
15            {
16                c=(i2%2==o)?'W' : 'B';
17                printf("%c",c);
18            }
19            printf("\n");
20        }
21    }
22    return 0;
23 }
24 }
```

	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 a,b,c,d,e,f,i,j,k,n;
5     scanf("%d",&a);
6     for(b=0;b<a;b++)
7     {
8         c=0;
9         scanf("%d",&n);
10        printf("Case #d\n",b+1);
11        for(i=0;i<n;i++)
12        {
13            d=0;
14            if(i>0)
15            {
16                for(j=0;j<i;j++)
17                    printf("***");
18            }
19            for(j=i;j<n;j++)
20            {
21                if(i>0)
22                    d++;
23                printf("%d0",++c);
24            }
25            if(i==0)
26            {
27                e=c+(c*(c-1))+1;f=e;
28            }
29            f=f-d;e=f;
30            for(k=i;k<n;k++)
31            {
32                printf("%d",e++);
33                if(k!=n-1)printf("0");
34            }printf("\n");
35        }
36    }
37 }
38
```

	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	

		*****15016	*****15016	
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Passed all tests! ✓