

GE23131-Programming Using C-2024

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Status	Finished
Started	Monday, 23 December 2024, 5:33 PM
Completed	Tuesday, 26 November 2024, 2:27 PM
Duration	27 days 3 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 a,n;
5     scanf("%d",&a);
6     for(int i=1;i<=a;i++)
7     {
8         scanf("%d",&n);
9         for(int j=1;j<=n;j++)
10        {
11            for(int k=1;k<=n;k++)
12            {
13                if((j-k)%2==0)
14                {
15                    printf("W");
16                }
17            else{
18                printf("B");
19            }
20        }
21    }
```


	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

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                 (i2%2 == z) ? printf("B") : printf("W");

```

```
19 |         printf("\n");
20 |     }
21 | }
22 | }
```


	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:

**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

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      {
7          v=0;
8          scanf("%d",&n);
9          printf("Case #%d\n",ti+1);
10         for(i=0;i<n;i++){
11             ...

```

```
14         for(i1=0;i1<i;i1++)
15             printf("**");
16     }
17     for(i1=i;i1<n;i1++)
18     {
19         if(i>0)
20             c++;
21         printf("%d0",++v);
22     }
23     if(i==0)
24     {
25         p3=v+(v*(v-1))+1;
26         in=p3;
27     }
28     in=in-c;
29     p3=in;
30     for(i2=i;i2<n;i2++){
31         printf("%d",p3++);
32         if(i2!=n-1)
33             printf("0");
34     }
35     printf("\n");
36 }
37 }
38 }
39 }
```

	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	

Case ID		Case ID	
102030405026027028029030		102030405026027028029030	
**6070809022023024025		**6070809022023024025	
****10011012019020021		****10011012019020021	
*****13014017018		*****13014017018	
*****15016		*****15016	

Passed all tests! ✓

Finish review