

GE23131-Programming Using C-2024

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Status	Finished
Started	Monday, 23 December 2024, 5:33 PM
Completed	Saturday, 14 December 2024, 2:24 PM
Duration	9 days 3 hours

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 %)

```
4 char c;
5 scanf("%d",&T);
6 while(i<T){
7     scanf("%d",&d);
8     i1=0;
9     while(i1<d){
10         o=1;
11         i2=0;
12         if(i1%2==0){
13             o=0;
14         }
15         while(i2<d){
16             c='B';
17             if(i2%2==o){
18                 c='W';
19             }
20             printf("%c",c);
21             i2++;
22         }
23         i1+=1;
24         printf("\n");
25     }
26     i+=1;
27 }
28
29 }
```


	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

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

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

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

```
31 | }  
32 | }
```

	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! ✓