

GE23131-Programming Using C-2024

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Status	Finished
Started	Monday, 23 December 2024, 5:33 PM
Completed	Friday, 13 December 2024, 6:47 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

Output:

WBW

BWB

WBW

WBWBW

BWBWB

WBWBW

BWBWB

WBWBW

Answer: (penalty regime: 0 %)

```
1 #include <stdio.h>
2 int main()
3 {
4     int T,d,i=0,i1,i2,o;
5     char c;
6     scanf("%d",&T);
7     while(i<T)
8     {
9         scanf("%d",&d);
10        i1=0;
11        while(i1<d)
12        {
13            o=1;
14            i2=0;
15            if(i1%2==0)
16            {
17                o=0;
18            }
19            while(i2<d)
20            {
```

```
24         c='W';
25     }
26     printf("%c",c);
27     i2++;
28 }
29 i1+=1;
30 printf("\n");
31 }
32 i=i+1;
33 }
34 }
```

	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:

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;
```

```
7 for(i1=0;i1<d;i1++)
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 }
```

	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

Decode the logic and print the Pattern that corresponds to given input.

If N= 3

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

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

	Input	Expected	Got	
✓	3	Case #1	Case #1	✓
	3	10203010011012	10203010011012	

Case #2

1020304017018019020
**50607014015016
****809012013
*****10011

Case #3

102030405026027028029030
**6070809022023024025
****10011012019020021
*****13014017018
*****15016

Case #2

1020304017018019020
**50607014015016
****809012013
*****10011

Case #3

102030405026027028029030
**6070809022023024025
****10011012019020021
*****13014017018
*****15016

Passed all tests! ✓

Finish review