

GE23131-Programming Using C-2024

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Status	Finished
Started	Monday, 23 December 2024, 5:33 PM
Completed	Friday, 13 December 2024, 5:33 PM
Duration	9 days 23 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
5

Output:

WBW

BWB

WBW

WBWBW

BWBWB

WBWBW

BWBWB

WBWBW

Answer: (penalty regime: 0 %)

```
1 #include <stdio.h>
2 int main(){
3     int a,b,i,j,k;
4     scanf("%d",&b);
5     for(k=1;k<=b;k++){
6         scanf("%d",&a);
7         for(i=1;i<=a;i++){
8             for(j=1;j<=a;j++){
9                 if(i%2==1){
10                     if(j%2==1){
11                         printf("W");
12                     }
13                     else if(j%2==0){
14                         printf("B");
15                     }
16                 }
17                 else if(i%2==0){
18                     if(j%2==0){
19                         printf("W");
20                     }
21                     else if(j%2==1){
22                         printf("B");
23                     }
24                 }
25             }
26         }
27     }
28     return 0;
29 }
30 }
```

	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     int a,b,i,j,k;
4     char c;
5     scanf("%d",&b);
6     for(k=0;k<=(b+1);k++){
7         scanf("%d",&a);
8         scanf("%c",&c);
9         if(c==66||c==98){
10             for(i=1;i<=a;i++){
11                 for(j=1;j<=a;j++){
12                     if(i%2==1){
13                         if(j%2==0){
14                             printf("W");
15                         }
16                         else if(j%2==1){
17                             printf("B");
18                         }
19                     }
20                     else if(i%2==0){
21                         if(j%2==1){
22                             printf("W");
23                         }
24                         else if(j%2==0){
25                             printf("B");
26                         }
27                     }
28                 }
29                 printf("\n");
30             }
31         }
32         else if(c==87||c==119){
33             for(i=1;i<=a;i++){
34                 for(j=1;j<=a;j++){
35                     if(i%2==1){
36                         if(j%2==0){
37                             printf("B");
38                         }
39                         else if(j%2==1){
```

```

40         printf("W");
41     }
42 }
43 else if(i%2==0){
44     if(j%2==1){
45         printf("B");
46     }
47     else if(j%2==0){
48         printf("W");
49     }
50 }
51 }
52 printf("\n");

```

	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     int t,n,x,y,i,z=1,ans,c;
4     scanf("%d",&t);
5     while(z<=t){
6         scanf("%d",&n);
7         printf("Case #%d\n",z);
8         y=1;
9         i=1;
10        c=0;
11        while(y<=n){
12            x=1;
13            ans=(n*n);
14            ans-=c;
15            while(x<=2*n){
16                if(x<=n){
17                    if(x<y)
18                        printf("***");
19                else if(x<=n){
20                    printf("%d",i*10);
21                    i++;
22                }}else{
23                    if((x+y)==(2*n)+1){
24                        printf("%d", (ans+y));
25                        ans++;
26                        c++;
27                    }else if((x+y)<=(2*n)+1){
```

```

28         printf("%d", (ans+y)*10);
29         ans++;
30         c++;
31     }
32 }
33     x++;
34 }
35     y++;
36     printf("\n");
37 }
38     z++;
39 }
40     return 0;
41 }

```

	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! ✓

Finish review