

GE23131-Programming Using C-2024

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Status	Finished
Started	Monday, 23 December 2024, 5:33 PM
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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;
4     scanf("%d",&b);
5     for(int i=1;i<=b;i++){
6         scanf("%d",&a);
7         for(int i=1;i<=a;i++){
8             for(int 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                 }else if(i%2==0){
17                     if(j%2==0){
18                         printf("W");
19                     }else if(j%2==1){
20                         printf("B");
21                     }
22                 }
23             }
24             printf("\n");
25         }
26     }
27     return 0;
28 }
```

	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;
4     char c;
5     scanf("%d",&b);
6     for(int i=0;i<=(b+1);i++){
7         scanf("%d",&a);
8         scanf("%c",&c);
9         if(c=='W' || c=='B'){
10             for(int i=1;i<=a;i++){
11                 for(int j=1;j<=a;j++){
12                     if(i%2==1){
13                         if(j%2==1){
14                             printf("B");
15                         }else if(j%2==0){
16                             printf("W");
17                         }
18                     }else if(i%2==0){
19                         if(j%2==0){
20                             printf("B");
21                         }else if(j%2==1){
22                             printf("W");
23                         }
24                     }
25                 }
26                 printf("\n");
27             }
28         }else if(c=='W' || c=='B'){
29             for(int i=1;i<=a;i++){
30                 for(int j=1;j<=a;j++){
31                     if(i%2==1){
32                         if(j%2==1){
33                             printf("W");
34                         }else if(j%2==0){
35                             printf("B");
36                         }
37                     }else if(i%2==0){
38                         if(j%2==0){
39                             printf("W");
40                         }else if(j%2==1){
41                             printf("B");
42                         }
43                     }
44                 }
45                 printf("\n");
46             }
47         }
48     }
49 }
50 
```

	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()
```

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main(){
3     int a,b=1,c,d,e,f,t,ans;
4     scanf("%d",&a);
5     while(b<=a){
6         scanf("%d",&e);
7         printf("Case #%d\n",b);
8         f=1;
9         t=1;
10        c=0;
11        while(f<=e){
12            d=1;
13            ans=(e*e);
14            ans-=c;
15            while(d<=2*e){
16                if(d<=e){
17                    if(d<f){
18                        printf("***");
19                    }else if(d<=e){
20                        printf("%d",t*10);
21                        t++;
22                    }
23                }else{
24                    if((d+f)==(2*e)+1){
25                        printf("%d", (ans+
26                            ans++);
27                        c++;
28                    }else if((d+f)<=((2*e
29                            printf("%d", (ans+
30                                ans++);
31                                c++;
32                            }
33                        }d++;
34                    }f++;printf("\n");
35                }b++;
36            }
37        }
38    }
```

	Input	Expected	Got
✓	3	Case #1	Case #1
	3	10203010011012	102030100110
	4	**4050809	**4050809
	5	****607	****607
		Case #2	Case #2
		1020304017018019020	102030401701
		**50607014015016	**5060701401
		****809012013	****80901201
		*****10011	*****10011
		Case #3	Case #3
		102030405026027028029030	102030405026
		**6070809022023024025	**6070809022
		****10011012019020021	****10011012
		*****13014017018	*****130140
		*****15016	*****1501

Passed all tests! ✓

Finish review