


GE23131-Programming Using C-2024

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Started Monday, 23 December 2024, 5:33 PM
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Question 1

Correct
Marked out of 3.00
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Question text

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

```
1 #include<stdio.h>
2 main(){
3     int n,size,i,j,count;
4     scanf("%d",&n);
5     while(n--){
6         scanf("%d",&size);
7         count=0;
8         for(i=0;i<size;i++){
9             for(j=0;j<size;j++){
10                 if(++count%2==1)
11                     printf("W");
12                 else
13                     printf("B");
14
15                 }if(size%2==0)
16                     count++;
17                 printf("\n");
18             }
19         }
20     }
21 }
22
```


Feedback

Input Expected Got

	WBW	WBW
	BWB	BWB
2	WBW	WBW
	WBWBW	WBWBW
3	BWBWB	BWBWB
5	WBWBW	WBWBW
	BWBWB	BWBWB
	WBWBW	WBWBW

Passed all tests!

Question 2

Correct
Marked out of 5.00
 Flag question

Question text

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 W

3 B

Output:

WB

BW

BWB

WBW

BWB

Answer:(penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main(){
3     int i,j,t,n;
4     char start,other;
5     scanf("%d",&t);
6     while(t--){
7         scanf("%d %c",&n,&start);
8         if(start=='W' || start=='w'){
9             other='B';
10        }
11        else{
12            other='W';
13        }
14        for(i=0;i<n;i++){
15            for(j=0;j<n;j++){
16                if((i+j)%2==0){
17                    printf("%c",start);
18                }
19                else{
20                    printf("%C",other);
21                }
22            }printf("\n");
23        }
24    }return 0;
25 }
```

Feedback


Input Expected Got

	WB	WB
2	BW	BW
2 W	BWB	BWB
3 B	WBW	WBW
	BWB	BWB

Passed all tests!

Question 3

Correct
Marked out of 7.00

 Flag question

Question text

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;
4     scanf("%d",&t);
5     for(int x =1;x<=t;x++){
6         printf("Case # %d\n",x);
7         int n;
8         scanf("%d",&n);
9         int f=1,b=n*(n+1);
10        for(int i=0;i<n;i++){
11            for(int k=0;k<2*i;k++){
12                printf("*");
13            }
14            printf("%d",f);
15            f++;
16            for(int j=2;j<=n-i;j++){
17                printf("0%d",f);
18                f++;
19            }
20            for(int l=b-(n-i)+1;l<=b;l++){
21                printf("0%d",l);
22            }
23        }
24
25        b-=n-i;
26        printf("\n");}
27    }
28 }
29 }
```

Feedback

Input	Expected	Got
	Case #1	Case #1
	10203010011012	10203010011012
	**4050809	**4050809
	****607	****607
	Case #2	Case #2
	1020304017018019020	1020304017018019020
3	**50607014015016	**50607014015016
3	****809012013	****809012013
4	*****10011	*****10011
5	Case #3	Case #3
	102030405026027028029030	102030405026027028029030
	**6070809022023024025	**6070809022023024025
	****10011012019020021	****10011012019020021
	*****13014017018	*****13014017018
	*****15016	*****15016

Passed all tests!

Finish review

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