

GE23131-Programming Using C-2024

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Status	Finished
Started	Monday, 23 December 2024, 5:33 PM
Completed	Thursday, 19 December 2024, 11:05 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 {
4     int T,size;
5     scanf("%d",&T);
6     while(T-->0)
7     {
8         scanf("%d",&size);
9         for(int i=0;i<size;i++)
10        {
11            for(int j=0;j<size;j++)
12            {
13                if((i+j)%2==0)
14                {
15                    printf("W");
16                }
17                else
18                {
19                    printf("B");
20                }
21            }
22            printf("\n");
23        }
24    }
25    return 0;
26 }
```

	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

WBWB

BWB

WBW

BWB

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     int T;
5     scanf("%d",&T);
6     while(T-->0)
7     {
8         int N;
9         char stchar;
10        scanf("%d %c",&N,&stchar);
11        char firstchar = stchar;
12        char secondchar=(stchar=='B')?'W':'B';
13        for(int i=0;i<N;i++)
14        {
15            for(int j=0;j<N;j++)
16            {
17                if((i+j)%2==0)
18                {
19                    printf("%c",firstchar);
20                }
21                else
22                {
23                    printf("%c",secondchar);
24                }
25            }
26            printf("\n");
27        }
28    }
29    return 0;
30 }
```

	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 {
4     int t,n,x,y,z=1,i,ans,c;
5     scanf("%d",&t);
6     while(z<=t)
7     {
8         scanf("%d",&n);
9         printf("Case #%d\n",z);
10        y=1;
11        i=1;
12        c=0;
13        while(y<=n)
14        {
15            x=1;
16            ans=(n*n);
17            ans=ans-c;
18            while(x<=2*n)
19            {
20                if(x<=n)
21                {
22                    if(x<y)
23                        printf("***");
24                    else if(x<=n)
25                    {
26                        printf("%d",i*10);
27                        i++;
28                    }
29                }
30                else
31                {
32                    if((x+y)==(2*n+1))
33                    {
34                        printf("%d", (ans+y));
35                        ans ++;
36                        c ++;
37                    }
38                    else if (x+y<=(2*n+1))
39                    {
40                        printf("%d", (ans+y)*10);
41                        ans ++;
42                        c++;
43                    }
44                }
45                x++;
46            }
47            y ++;
48            printf("\n");
49        }
50        z++;
51    }
52    return 0;

```

	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