

GE23131-Programming Using C-2024

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Status	Finished
Started	Monday, 23 December 2024, 5:33 PM
Completed	Friday, 20 December 2024, 1:38 PM
Duration	3 days 3 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 T,size;
4     scanf("%d",&T);
5     while(T--){
6         {
7             scanf("%d",&size);
8             for(int i=0;i<size;i++){
9                 {
10                     for(int j=0;j<size;j++){
11                         {
12                             if((i+j)%2==0)
13                             {
14                                 printf("W");
15                             }
16                             else
17                             {
18                                 printf("B");
19                             }
20                         }
21                     }
22                     printf("\n");
23                 }
24             }
```

	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

Let's print a chessboard!

Marked out of
5.00

Flag question

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 {
4     int T;
5     scanf("%d",&T);
6     while(T--)
7     {
8         int n;
9         char starchar;
10        scanf("%d %c",&n,&starchar);
11        char firstchar = starchar;
12        char secondchar = (starchar=='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 }

```

	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,i,ans,c,z=1;
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                     }
42                 }
43             }
44             z++;
45         }
46     }
```

```

41         ans ++;
42     }
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	
		1020304017010010020	1020304017010010020	
		**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