

GE23131-Programming Using C-2024

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Status	Finished
Started	Monday, 23 December 2024, 5:33 PM
Completed	Tuesday, 10 December 2024, 1:06 PM
Duration	13 days 4 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,i,j;
4     scanf("%d",&T);
5     while(T--){
```

```

0      scanf("%d",&size);
7      for(i=0;i<size;i++){
8          for(j=0;j<size;j++){
9              if((i+j)%2==0){
10                 printf("W");
11             }
12             else{
13                 printf("B");
14             }
15         }
16         printf("\n");
17     }
18 }
19 return 0;
20 }

```

	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 T,N,i,j;
4     char ch;
5     scanf("%d",&T);
6     while(T--){
7         scanf("%d %c",&N,&ch);
8         for(i=0;i<N;i++){
9             for(j=0;j<N;j++){
10                 printf("%c",ch);
11                 ch=(ch=='W')?'B':'W';
12             }
13             printf("\n");
14             if(N%2==0){
15                 ch=(ch=='W')?'B':'W';
16             }
17         }
18     }
19     return 0;
20 }
```

	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;
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            {
12                for(int k=0;k<2*i;k++){
13                    printf("*");
14                }
15                printf("%d",f);
16                f++;
17                for(int j=2;j<=n-i;j++){
18                    {
19                        printf("0%d",f);
20                        f++;
21                    }
22                }
23                for(int l=b-(n-i)+1;l<=b;l++){
24                    {
25                        printf("0%d",l);
26                    }
27                }
28                b-=n-i;
29                printf("\n");
30            }
31        }
32        return 0;
33    }
```

	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