GE23131-Programming Using C-2024

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Status	Finished
Started	Monday, 23 December 2024, 5:33 PM
Completed	Friday, 20 December 2024, 9:34 AM
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Question **1**

Correct

Marked out of 3.00

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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 %)

```c
1  #include <stdio.h>
2  int main() {
3      int T,d,i=0,i1,i2,o;
4      char c;
5      scanf("%d",&T);
6      while(i<T){
7          scanf("%d",&d);
8          i1=0;
9          while(i1<d)
10         {
11             o=1;
12             i2=0;
13             if(i1%2==0){
14                 o=0;
15             }
16             while(i2<d)
17             {
18                 c='B';
19                 if(i2%2==o)
20                 {
21                     c='W';
22                 }
23                 printf("%c",c);
24                 i2++;
25             }
26             i1+=1;
27             printf("\n");
28         }
29         i=i+1;
30     }
31 }
```

	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! ✓

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 %)

```c
#include <stdio.h>
int main() {
    int T,d,i,i1,i2,o,z;
    char c,s;
    scanf("%d",&T);
    for(i=0;i<T;i++)
```

```
 7 ▼    {
 8          scanf("%d %c",&d,&s);
 9          for(i1=0;i1<d;i1++)
10 ▼        {
11              z=(s=='W')?0:1;
12              o=(i1%2==z)?0:1;
13              for(i2=0;i2<d;i2++)
14 ▼            {
15                  c=(i2%2==o)?'W':'B';
16                  printf("%c",c);
17              }
18              printf("\n");
19          }
20      }
21 }
22
```

	Input	Expected	Got	
✓	2	WB	WB	✓
	2 W	BW	BW	
	3 B	BWB	BWB	
		WBW	WBW	
		BWB	BWB	

Passed all tests! ✓

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 <= N <= 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

~~~~~~10011

Case #3

102030405026027028029030

**6070809022023024025

****10011012019020021

******13014017018

********15016

Answer: (penalty regime: 0 %)

```c
#include <stdio.h>
int main() {
    int n,v,p3,c,in,i,i1,i2,t,ti;
    scanf("%d",&t);
    for(ti=0;ti<t;ti++){
        v=0;
        scanf("%d",&n);
        printf("Case #%d\n",ti+1);
        for(i=0;i<n;i++){
            c=0;
            if(i>0){
                for(i1=0;i1<i;i1++) printf("**");
            }
            for(i1=i;i1<n;i1++){
                if(i>0) c++;
                printf("%d0",++v);
            }
            if(i==0){
                p3=v+(v*(v-1))+1;
                in=p3;
            }
            in=in-c;
            p3=in;
            for(i2=i;i2<n;i2++){
                printf("%d",p3++);
                if(i2!=n-1) printf("0");
            }
            printf("\n");
        }
    }
}
```

	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
     10203040502602702802903010203040502602702802903 0
     **60708090022023024025 **60708090022023024025
     ****100110120190200 21 ****100110120190200 21
     ******13014017018     ******13014017018
     ********15016         ********15016
```

Passed all tests! ✓

Finish review