GE23131-Programming Using C-2024

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Status	Finished
Started	Monday, 23 December 2024, 5:33 PM
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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
#include<stdio.h>
int main(){
    int T,d,o;
    char c;
    scanf("%d",&T);
    for(int i=0;i<T;i++){
        scanf("%d",&d);
        for(int j=0;j<d;j++){
            o=1;
            if(j%2==0){
                o=0;
            }
            for(int k=0;k<d;k++){
                c='B';
                if(k%2==o){
                    c='W';
                }
                printf("%c",c);
            }
            printf("\n");
        }
    }
}
```

	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
1  #include<stdio.h>
2  int main(){
3      int T,a,c,d;
4      char b,e;
5      scanf("%d",&T);
6      for(int i=0;i<T;i++){
7          scanf("%d %c",&a,&b);
8          for(int j=0;j<a;j++){
9              c=(b=='W')?0:1;
10             d=(j%2==c)?0:1;
11             for(int k=0;k<a;k++){
12                 e=(k%2==d)?'W':'B';
13
```

```
14              printf("%c",e);
15          }
16          printf("\n");
17
18      }
19  }
20
21 }
```

	Input	Expected	Got	
✓	2 2 W 3 B	WB BW BWB WBW BWB	WB BW BWB WBW 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
Case #3
10203040405026027028029030
**6070809022023024025
****10011012019020021

******13014017018

********15016

Answer: (penalty regime: 0 %)

```c
#include<stdio.h>
int main(){
    int no_of_test,case_no,a,b,c,d;
    scanf("%d",&no_of_test);
    for(int i=1;i<=no_of_test;i++){
        a=0;
        scanf("%d",&case_no);
        printf("Case #%d\n",i);
        for(int j=0;j<case_no;j++){
            b=0;
            if(j>0){
                for(int k=0;k<j;k++)
                    printf("**");
            }
            for(int l=j;l<case_no;l++){
                if(j>0)
                    b++;
                printf("%d0",++a);
            }
            if(j==0){
                c=a+(a*(a-1))+1;
                d=c;
            }
            d=d-b;
            c=d;
            for(int m=j;m<case_no;m++){
                printf("%d",c++);
                if(m!=case_no-1)
                    printf("0");
            }
            printf("\n");

        }
    }
}
```

	Input	Expected	Got	
✓	3 3 4 5	Case #1 10203010011012 **4050809 ****607 Case #2 1020304017018019020	Case #1 10203010011012 **4050809 ****607 Case #2 1020304017018019020	✓

```
**50607014015016        **50607014015016
****809012013           ****809012013
******10011             ******10011
Case #3                 Case #3
10203040502602702802903010203040502602702802903 0
**6070809022023024025   **6070809022023024025
****10011012019020021   ****10011012019020021
******13014017018       ******13014017018
********15016           ********15016
```

Passed all tests! ✓

Finish review