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

⚑ 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

Output:

WBW

BWB

WBW

WBWBW

BWBWB

WBWBW

BWBWB

WBWBW

Answer: (penalty regime: 0 %)

```c
#include<stdio.h>
int main(){
    int n;
    scanf("%d",&n);
    while(n--){
        int i;
        scanf("%d",&i);
        for(int j=1;j<=i;j++){
            if(j%2!=0){
                int c=1;
                char a = 'W';
                while(c<=i){
                    printf("%c",a);
                    a=(a=='W')?'B':'W';
                    c++;
                }
                printf("\n");
            }
            else{
```

```
24                    printf("%c",z);
25                    z=(z=='W')?'B':'W';
26                    m++;
27                }
28                printf("\n");
29            }
30        }
31    }
32    }
```

	Input	Expected	Got	
✔	2 3 5	WBW BWB WBW WBWBW BWBWB WBWBW BWBWB WBWBW	WBW BWB WBW WBWBW BWBWB WBWBW BWBWB 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

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 n;
4      scanf("%d",&n);
5      while(n--){
6          int i;
7          char ch;
```

```c
                char a='W';
                int c=1;
                while(c<=i){
                    printf("%c",a);
                    a=(a=='W')?'B':'W';
                    c++;
                }
            ch=(ch=='W')?'B':'W';
            printf("\n");
        }
        else{
                char z='B';
                int m=1;
                while(m<=i){
                    printf("%c",z);
                    z=(z=='W')?'B':'W';
                    m++;
                }
            ch=(ch=='w')?'B':'W';
            printf("\n");
        }
    }
}
}
```

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

Passed all tests! ✓

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

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

10203040500026027028029030

**6070809022023024025

********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");
        }
    }
}
```

✓	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	
		10203040502602702802903 0	10203040502602702802903 0	
		**6070809022023024025	**6070809022023024025	
		****100110120190200 21	****100110120190200 21	
		******13014017018	******13014017018	
		********15016	********15016	

Passed all tests! ✓

Finish review