GE23131-Programming Using C-2024

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Status	Finished
Started	Monday, 23 December 2024, 5:33 PM
Completed	Tuesday, 26 November 2024, 3:00 PM
Duration	27 days 2 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 %)

```
#include<stdio.h>
int main(){
    int times;
    scanf("%d",&times);
    for(int k=0;k<times;k++){
        int a;
        scanf("%d",&a);
        for (int i=0;i<a;i++){
        for(int j=0;j<a;j++){
            if((i+j)%2==0)
                printf("W");
            else
```

```
            printf("B");

        }
        printf("\n");
        }
    }
    return 0;
}
```

	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

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 times;
    scanf("%d",&times);
    for (int k=0;k<times;k++){
        int a;
        char ch;
        scanf("%d %c",&a,&ch);
        char first=ch;
        char second=(ch=='W')?'B':'W';
        for (int i=0;i<a;i++){
            for (int j=0;j<a;j++){
                if((i+j)%2==0)
                    printf("%c",first);
                else
                    printf("%c",second);
            }
            printf("\n");
        }
    }
    return 0;
}
```

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

10203040502602702802 9030

**6070809022023024025

****10011012019020021

******13014017018

********15016

Answer: (penalty regime: 0 %)

```c
#include<stdio.h>
int main(){
    int t,n,x,y,i,z=1,ans,c;
    scanf("%d",&t);
    while(z<=t){
    scanf("%d",&n);
    printf("Case #%d\n",z);
    y=1;
    i=1;
    c=0;
    while(y<=n){
        x=1;
        ans=(n*n);
        ans=ans-c;
        while(x<=2*n){
            if(x<=n){
                if(x<y)
        printf("**");

        else if(x<=n){
            printf("%d",i*10);
            i++;
        }}else{
```

```
                if((x+y)==(2*n)+1){
                    printf("%d",(ans+y));
                    ans++;
                    c++;
                }
                else if((x+y)<=(2*n)+1){
                    printf("%d",(ans+y)*10);
                    ans++;
                    c++;
                }

            }
        x++;
                }
                y++;
                printf("\n");
            }
            z++;
        }
}
```

	Input	Expected	Got	
✓	3 3 4 5	Case #1 10203010011012 **4050809 ****607 Case #2 1020304017018019020 **50607014015016 ****809012013 ******10011 Case #3 10203040502602702802903 0 **6070809022023024025 ****10011012019020021 ******13014017018 ********15016	Case #1 10203010011012 **4050809 ****607 Case #2 1020304017018019020 **50607014015016 ****809012013 ******10011 Case #3 10203040502602702802903 0 **6070809022023024025 ****10011012019020021 ******13014017018 ********15016	✓

Passed all tests! ✓