GE23131-Programming Using C-2024

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Status	Finished
Started	Sunday, 29 December 2024, 11:54 AM
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Duration	1 hour 46 mins

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 %)

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

        }
        if(s%2==0)
        c++;
        printf("\n");


    }
 }
}
```

	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 n;
    int size,i,j,count;
    char ch,first,second;
    scanf("%d",&n);
    while(n--){
        scanf("%d",&size);
        scanf(" %c",&ch);
        if(ch == 'W')
        {
            first= 'W';
            second= 'B';
        }
        else
        {
            first= 'B';
            second= 'W';
        }
        count = 0;
        for(i=0;i<size;i++)
        {
            for(j=0;j<size;j++)
            {
                if(++count%2==1)
```

```
                printf("%c", first);
                else
                printf("%c", second);
            }
            if(size%2 == 0)
            count++;
            printf("\n");

        }
    }
}
```

	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

102030405026027028029030

**6070809022023024025

****10011012019020021

******13014017018

********15016

Answer: (penalty regime: 0 %)

```c
#include<stdio.h>
int main()
{
    int n,r,col,oppr,oppn,t,c=0,num;
    int i,s;
    scanf("%d",&t);
    while(t--)
    {
        s=0;
        scanf("%d",&n);
        num=1;
        oppr=n*n+1;
        printf("Case #%d\n",++c);
        for(r=n;r>=1;r--,oppr=oppr-r)
        {
            for(i=0;i<s;i++)
            printf("**");
            s++;
            for(col=1;col<=r;col++)
                printf("%d0",num++);
            oppn=oppr;
            for(col=1;col<r;col++)
                printf("%d0",oppn++);
            printf("%d\n",oppn++);
        }
    }
    return 0;
}
```

	Input	Expected	Got	
✓	3 3 4 5	Case #1 10203010011012 **4050809 ****607 Case #2 1020304017018019020 **50607014015016 ****809012013 ******10011 Case #3 102030405026027028029030 **6070809022023024025 ****10011012019020021 ******13014017018 ********15016	Case #1 10203010011012 **4050809 ****607 Case #2 1020304017018019020 **50607014015016 ****809012013 ******10011 Case #3 102030405026027028029030 **6070809022023024025 ****10011012019020021 ******13014017018 ********15016	✓

Passed all tests! ✓