2407010056

REC-CIS

GE23131-Programming Using C-2024

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Status	Finished
Started	Monday, 23 December 2024, 5:33 PM
Completed	Friday, 6 December 2024, 4:59 PM
Duration	17 days

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

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3

5

Output:

WBW

BWB

WBW

WBWBW

BWBWB

WBWBW

BWBWB

WBWBW

Answer: (penalty regime: 0 %)

```c
#include<stdio.h>
int main()
{
    int T, d, i = 0, i1, i2, o;
    char c;
    scanf("%d", &T);
    while(i < T)
    {
        scanf("%d", &d);
        i1 = 0;
        while(i1 < d)
        {
            o = 1;
```

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```
            i2 = 0;
            if(i1 % 2 == 0)
            {
                o = 0;
            }
            while(i2 < d)
            {
                c = 'B';
                if(i2 % 2 == o)
                {
                    c = 'W';
                }
                printf("%c", c);
                i2++;
            }
            i1+=1;
            printf("\n");
        }
        i = i + 1;
    }
}
```

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

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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:

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WB

BW

BWB

WBW

BWB

Answer: (penalty regime: 0 %)

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

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```
                    }
                }
                else
                {
                    if(k%2 == 0)
                    {
                        printf("B");
                    }
                    else
                    {
                        printf("W");
                    }
                }
            }
            printf("\n");
        }
    }
    else
    {
        for(int j = 1; j < a+1; j++)
        {
            for(int k = 0; k < a; k++)
            {
                if(j%2 != 0)
                {
                    if(k%2 == 0)
                    {
                        printf("B");
                    }
                    else
                    {
                        printf("W");
                    }
                }
                else
                {
                    if(k%2==0)
                    {
```

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```
                    if(K%2==0)
                    {
                        printf("W");
                    }
                    else
                    {
                        printf("B");
                    }
                }
            }
            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

Decode the logic and print the Pattern that corresponds to given input.

If N= 3

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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

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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

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Case #3

10203040502602702802903O

**6070809022023024025

****10011012019020021

******13014017018

********15016

Answer: (penalty regime: 0 %)

```c
#include<stdio.h>
int main()
{
    int n,o, d, y = 1, m = 10;
    scanf("%d", &n);
    int a[n];
    for(int i = 0; i < n; i++)
    {
        scanf("%d", &a[i]);
    }
    for(int k = 0; k < n; k++)
    {
        o = (a[k]*a[k]*10)+10;
        int h = (a[k]*20)-20;
        printf("Case #%d", k + 1);
        printf("\n");
        for(int i = 0; i < a[k]; i++)
        {
            for(int j = 0; j < i;j++)
            {
                printf("**");
            }
            for(int j = a[k]; j > i; j--)
            {
```

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```
                {
                    printf("%d", m);
                    m = m + 10;
                }
                for(int j = a[k]; j > i; j--)
                {
                    if(j == y)
                    {
                        d = o;
                        printf("%d", d/10);
                        o = o + 10;
                        y++;
                    }
                    else
                    {
                        printf("%d", o);
                        o = o + 10;
                    }
                }
                o = o - h - 10;
                h = h - 20;
                printf("\n");

            }
            m = 10;
            y = 1;
        }
        return 0;
}
```

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

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	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! ✓

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