GE23131-Programming Using C-2024

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Status	Finished
Started	Monday, 23 December 2024, 5:33 PM
Completed	Tuesday, 10 December 2024, 9:49 AM
Duration	13 days 7 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 %)

```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;
            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	✓

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 t,d,i,i1,i2,o,z;
    char c,s;
    scanf("%d",&t);
    for(i=0;i<t;i++)
    {
        scanf("%d %c",&d,&s);
        for(i1=0;i1<d;i1++)
        {
            z=(s=='W') ? 0:1;
            o=(i1%2==z) ? 0:1;
            for(i2=0;i2<d;i2++)
            {
                c=(i2%2==o) ? 'W' : 'B';
                printf("%c",c);
            }
            printf("\n");
        }
    }
    return 0;
}
```

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

		WBW 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,ti,n;
    scanf("%d",&t);
    for(ti=0;ti<t;ti++)
    {
        scanf("%d",&n);
        printf("Case #%d\n",ti+1);
        int next=1,val=1;
        for(int i=n;i>=1;i--)
        {
            val = next;
            for(int j=1;j<=2*n-(n-i);j++)
            {
                if(j<=(n-i))
                {
                    printf("**");
                }
                else if(j==n)
            {
                printf("%d0",val++);
                next=val;
                val=val+(i-1)*(i);
            }
            else if(j==(2*n-(n-i)))
            {
                printf("%d",val++);

            }
            else
            {
                printf("%d0",val++);
            }
            }

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

	Input	Expected	Got	
✓	3	Case #1	Case #1	✓

	3	1020301001012	1020301001012	
	4	**4050809	**4050809	
	5	****607	****607	
		Case #2	Case #2	
		1020304017018019020	1020304017018019020	
		**50607014015016	**50607014015016	
		****809012013	****809012013	
		******10011	******10011	
		Case #3	Case #3	
		102030405026027028029030	102030405026027028029030	
		**6070809022023024025	**6070809022023024025	
		****10011012019020021	****10011012019020021	
		******13014017018	******13014017018	
		********15016	********15016	

Passed all tests! ✓

Finish review