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

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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 a,n;
    scanf("%d",&a);
    for(int k=1;k<=a;k++)
    {
        scanf("%d",&n);

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

	Input	Expected	Got	
✓	2 3	WBW BWB	WBW BWB	✓

5	WBW	WBW
	WBWBW	WBWBW
	BWBWB	BWBWB
	WBWBW	WBWBW
	BWBWB	BWBWB
	WBWBW	WBWBW

Passed all tests! ✓

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
1   #include<stdio.h>
2   int main()
3   {
4       int t,d,i,i1,i2,o,z;
5       char c,s;
6       scanf("%d",&t);
7       for(i=0;i<t;i++)
8       {
9           scanf("%d %c",&d,&s);
10          for(i1=0;i1<d;i1++)
11          {
12              z=(s=='W')?0:1;
13              o=(i1%2==z)?0:1;
14              for(i2=0;i2<d;i2++)
15              {
16                  c=(i2%2==o)?'W':'B';
17                  printf("%c",c);
18              }
19              printf("\n");
20          }
21      }
22  }
```

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

Passed all tests! ✓

Question **3**

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

10203040500026027028029030

**60708090022023024025

****100110120190200021

******13014017018

********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;
```

```c
        scanf("%d",&n);
        printf("Case #%d\n",ti+1);
                for(i=0;i<n;i++)
                {
                    c=0;
                    if(i>0)
                    {
                        for(i1=0;i1<n;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");



                }
    }

}
```

```
        |       ^
__tester__.c:45:1: error: expected declaration or statement at end of input
   45 | }
        | ^
cc1: all warnings being treated as errors
```

Finish review