GE23131-Programming Using C-2024

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Status	Finished
Started	Monday, 23 December 2024, 5:33 PM
Completed	Tuesday, 26 November 2024, 8:26 PM
Duration	26 days 21 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

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 i=1;i<=a;i++)
    {
        scanf("%d",&n);
        for(int j=1;j<=n;j++)
        {
            for(int k=1;k<=n;k++)
            {
                if((j-k)%2==0)
                {
                    printf("W");
                }
                else
                {
                    printf("B");
                }
```

```
        }
    }
}
```

	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

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;
```

```
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**

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

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

Output

Case #1

10203010011012

**4050809

****607

Case #2

1020304017018019020

**50607014015016

****809012013

******10011

Case #3

10203040502602702802 9030

**6070809022023024025

****10011012019020021

******13014017018

********15016

Answer: (penalty regime: 0 %)

```
#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++)
    {
```

```
        {
            for(i=0;i<n;i++)
            {
                c=0;
                if(i>0)
                {
                    for(i1=0;i1<i;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");
        }
    }
}
}

```

	Input	Expected	Got	

	4 5	**4050809 ****607 Case #2 1020304017018019020 **50607014015016 ****809012013 ******10011 Case #3 10203040502602702802903 0 **6070809022023024025 ****10011012019020021 ******13014017018 ********15016	**4050809 ****607 Case #2 1020304017018019020 **50607014015016 ****809012013 ******10011 Case #3 10203040502602702802903 0 **6070809022023024025 ****10011012019020021 ******13014017018 ********15016	

Passed all tests! ✓

Finish review