GE23131-Programming Using C-2024

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Status	Finished
Started	Monday, 23 December 2024, 5:33 PM
Completed	Friday, 6 December 2024, 9:42 AM
Duration	17 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! ✓

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     return 0;
23  }
```

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

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

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

10203040405026027028029030

**6070809022023024025

****10011012019020021

******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;
            scanf("%d",&n);
            printf("Case #%d\n",ti+1);
            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	
✓	3	Case #1	Case #1	✓
	3	102030100110 12	102030100110 12	

```
3     1020301011012              1020301011012
4     **4050809                  **4050809
5     ****607                    ****607
      Case #2                    Case #2
      1020304017018019020        1020304017018019020
      **50607014015016           **50607014015016
      ****809012013              ****809012013
      ******10011                ******10011
      Case #3                    Case #3
      10203040502602702802903    10203040502602702802903
      **6070809022023024025      **6070809022023024025
      ****100110120190200021     ****100110120190200021
      ******13014017018          ******13014017018
      ********15016              ********15016
```

Passed all tests! ✓

Finish review