REC-CIS

GE23131-Programming Using C-2024

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Status	Finished
Started	Monday, 23 December 2024, 5:33 PM
Completed	Tuesday, 17 December 2024, 8:40 AM
Duration	6 days 8 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

```c
 2  int main(){
 3      int T,d,i=0,i1,i2,o;
 4      char c;
 5      scanf("%d",&T);
 6      while(i<T){
 7          scanf("%d",&d);
 8          i1=0;
 9          while(i1<d){
10              o=1;
11              i2=0;
12              if(i1%2==0){
13                  o=0;
14              }
15              while(i2<d){
16                  c='B';
17                  if(i2%2==o){
18                      c='W';
19                  }
20                  printf("%c",c);
21                  i2++;
22              }
23              i1++;
24              printf("\n");}
25          i++;
26      }
27  }
```

	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

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	WB BW	WB BW

	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

4

5

Output

Case #1

10203010011012

**4050809

****607

Case #2

1020304017018019020

**50607014015016

****809012013

******10011

Case #3

1020304050260270280 29030

**60708090220230 24025

****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");
```

```
28          }
29      }
30
```

	Input	Expected	Got	
	3 3 4 5	Case #1 10203010011012 **4050809 ****607 Case #2 1020304017018019020 **50607014015016 ****809012013 ******10011 Case #3 102030405026027028029030 **6070809022023024025 ****10011012019020021 ******13014017018 ********15016	Case #1 10203010011012 **4050809 ****607 Case #2 1020304017018019020 **50607014015016 ****809012013 ******10011 Case #3 102030405026027028029030 **6070809022023024025 ****10011012019020021 ******13014017018 ********15016	

Passed all tests!

Finish review