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REC-CIS

GE23131-Programming Using C-2024

Status	Finished
Started	Monday, 23 December 2024, 5:33 PM
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Question **1**

Correct

Marked out of 3.00

Flag question

Question text

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 %)

```
#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;

    }
}
```

Feedback

	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

Question text

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 %)

```
#include<stdio.h>
int main() {
```

```
    int T,d,i1,i2,o,z,i;
    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");

        }
    }
}
```

Feedback

	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

Question text

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

102030405026027028029030

**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++) {
      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");
      }
   }
}
```

Feedback

	Input	Expected	Got
	3 3 4 5	Case #1 10203010011012 **4050809 ****607 Case #2 1020304017018019020 **50607014015016 ****809012013 ******10011 Case #3 10203040502602702802903 0 **6070809022023024025 ****10011012019020021 ******13014017018 ********15016	Case #1 10203010011012 **4050809 ****607 Case #2 1020304017018019020 **50607014015016 ****809012013 ******10011 Case #3 10203040502602702802903 0 **6070809022023024025 ****10011012019020021 ******13014017018 ********15016

Passed all tests!

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