GE23131-Programming Using C-2024

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Status	Finished
Started	Monday, 23 December 2024, 5:33 PM
Completed	Wednesday, 18 December 2024, 9:34 PM
Duration	4 days 19 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

3

5

Output:

WBW

BWB

WBW

WBWBW

BWBWB

WBWBW

BWBWB

WBWBW

Answer: (penalty regime: 0 %)

```
#include<stdio.h>
int main()
{
int t,size;
scanf("%d",&t);
while(t--)
{
    scanf("%d",&size);
    for(int i=0;i<size;i++)
    {
        for(int j=0;j<size;j++)
        {
            if((i+j)%2==0)
            {
```

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```
        {
            if((i+j)%2==0)
            {
                printf("W");
            }
            else{
                printf("B");
            }
        }
        printf("\n");
    }
}
return 0;
}
```

	Input	Expected	Got	
✓	2	WBW	WBW	✓
	3	BWB	BWB	
	5	WBW	WBW	
		WBWBW	WBWBW	
		BWBWB	BWBWB	
		WBWBW	WBWBW	
		BWBWB	BWBWB	
		WBWBW	WBWBW	

Passed all tests! ✓

Question **2**

Correct

Let's print a chessboard!

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

Print the chessboard as per the given examples

Sample Input / Output

Input:

2

2 W

3 B

Output:

WB

BW

BWW

BWB

WBW

BWB

Answer: (penalty regime: 0 %)

```c
#include<stdio.h>
int main()
{
  int t;
  scanf("%d",&t);
  while(t--)
  {
      int n;
      char s;
      scanf("%d %c",&n,&s);
      char firsts=s;
      char secondchar=(s=='B')?'W':'B';
      for(int i=0;i<n;i++)
      {
          for(int j=0;j<n;j++)
          {
              if((i+j)%2==0)
              {
                  printf("%c",firsts);
              }
              else{
                  printf("%c",secondchar);
              }
          }
          printf("\n");
      }
  }
  return 0;
}
```

	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

If N= 4, then pattern will be:

1020304017018019020

**50607014015016

****809012013

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 %)

```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){
```

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```
            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");
        }
    }
return 0;
}
```

	Input	Expected	Got	
✓	3 3 4 5	Case #1 10203010011012 **4050809 ****607 Case #2 1020304017018019020 **50607014015016 ****809012013 ******10011	Case #1 10203010011012 **4050809 ****607 Case #2 1020304017018019020 **50607014015016 ****809012013 ******10011	✓

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Week-05-01-Practice Session-Coding: Attempt review | REC-CIS - Google Chrome

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REC-CIS

```
    }
return 0;
}
```

	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! ✓

Finish review

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Sunday

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