

GE23131-Programming Using C-2024

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Status	Finished
Started	Monday, 23 December 2024, 5:33 PM
Completed	Friday, 20 December 2024, 2:18 PM
Duration	3 days 3 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 %)

```
1 #include<stdio.h>
2 int main(){
3     int n,r,i,j;
4     scanf("%d",&n);
5     while(n){
6         scanf("%d",&r);
7         for(i=0;i<r;i++){
8             for(j=0;j<r;j++){
9                 if((i+j)%2==0)
10                    printf("W");
11                else
12                    printf("B");
13            }
14            printf("\n");
15        }
16        n=n-1;
17    }
18    return 0;
19 }
```

	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

Marked out of
5.00

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 %)

```

1  #include<stdio.h>
2  int main(){
3      int n,r,i,j;
4      char a;
5      scanf("%d",&n);
6      while(n){
7          scanf("%d %c",&r,&a);
8          for(i=0;i<r;i++){
9              for(j=0;j<r;j++){
10                 if(a=='W'){
11                     if((i+j)%2==0)
12                         printf("W");
13                     else
14                         printf("B");
15                 }
16             }
17             printf("\n");
18             n--;
19         }
20     }

```

```

16         else if(a== B ){
17             if((i+j)%2==0)
18                 printf("B");
19             else
20                 printf("W");
21         }
22     }
23     printf("\n");
24 }
25     n=n-1;
26 }
27     return 0;
28 }

```

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

 $2 \leq N \leq 100$

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

[illegible]

102030405026027028029030

**6070809022023024025

****10011012019020021

*****13014017018

*****15016

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main(){
3     int n,v,p,c,in,i,il,i2,t,ti;
4     scanf("%d",&t);
5     for(ti=0;ti<t;ti++){
6         v=0;
7         scanf("%d",&n);
8         printf("Case #%d\n",ti+1);
9         for(i=0;i<n;i++){
10             c=0;
11             if(i>0){
12                 for(il=0;il<i;il++){
13                     printf("***");
14                 }
15                 for(il=i;il<n;il++){
16                     if(i>0)
17                         c++;
18                     printf("%d0",++v);
19                 }
20                 if(i==0){
21                     p=v+(v*(v-1))+1;
22                     in=p;
23                 }
24                 in=in-c;
25                 p=in;
26                 for(i2=i;i2<n;i2++){
27                     printf("%d",p++);
28                     if(i2!=n-1)
29                         printf("0");
30                 }
31                 printf("\n");
32             }
33         }
34     }
```

	Input	Expected	Got	
✓	3	Case #1	Case #1	✓
	3	10203010011012	10203010011012	
	4	**4050809	**4050809	
	5	****607	****607	

Case #3	Case #3
1020304017018019020	1020304017018019020
**50607014015016	**50607014015016
****809012013	****809012013
*****10011	*****10011
Case #3	Case #3
102030405026027028029030	102030405026027028029030
**6070809022023024025	**6070809022023024025
****10011012019020021	****10011012019020021
*****13014017018	*****13014017018
*****15016	*****15016

Passed all tests! ✓

Finish review