

ng Using C-2024

Status Finished

Started Monday, 23 December 2024, 5:33 PM

Completed Friday, 20 December 2024, 9:48 AM

Duration 3 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 different values for size of the chessboard

Output format:

Print a chessboard of dimensions size * size. Print a 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 {
4     int T,d,i=0,i1,i2,a;
5     char c;
6     scanf("%d",&T);
7     while(i<T)
8     {
9         scanf("%d",&d);
10        i1=0;
11        while(i1<d)
12        {
13            a=1;
14            i2=0;
15            if(i1%2==0)
16            {
17                a=0;
18            }
19            while(i2<d)
20            {
21                c='B';
22                if(i2%2==a)
23                {
24                    c='W';
25                }
26                printf("%c",c);
27                i2++;
28            }
29            i1+=1;
30
31            printf("\n");
32        }
33        i=i+1;
34    }
35 return 0;
36 }
```

	Input	Expected	Got	
✓	2	WBW	WBW	✓
	3	BWB	BwB	
	5	WBW	WBW	
		WBWBW	WBwBW	

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

Passed all tests! ✓

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
BWB
WBW
BWB

Answer: (penalty regime: 0 %)

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     int T;
5     scanf("%d", &T);
6     for(int t=0;t<T;t++)
7     {
8         int N;
9         char start;
10        scanf("%d %c", &N, &start);
11        char alt=(start=='W') ? 'B' : 'W';
12        for(int i=0;i<N;i++)
13        {
14            for(int j=0;j<N;j++)
15            {
16                if((i+j)%2==0)
17                {
18                    printf("%c", start);
19                }
20                else {
21                    printf("%c", alt);
22                }
23            }
24            printf("\n");
25        }
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

102030405026027028029030

**6070809022023024025

****10011012019020021

*****13014017018

*****15016

Answer: (penalty regime: 0 %)

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     int n,v,p3,c,in,i,il,i2,t,ti;
5     scanf("%d",&t);
6     for (ti=0;ti<t;ti++)
7     {
8         v=0;
9         scanf("%d",&n);
10        printf("Case #%d\n",ti+1);
11        for(i=0;i<n;i++){
12            c=0;
13            if(i>0){
14                for(il=0;il<i;il++) printf("**");
15            }
16            for(il=i;il<n;il++){
17                if(i>0) c++;
18                printf("%d0",++v);
19            }
20            if(i==0){
21                p3=v*(v*(v-1))+1;
22                in=p3;
23            }
24            in=in-c;
25            p3=in;
26            for(i2=i;i2<n;i2++){
27                printf("%d",p3++);
28                if(i2!=n-1) printf("0");
29            }
30            printf("\n");
31        }
32    }
33    return 0;
34 }
35 }
```

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

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

Passed all tests! ✓

Finish review