

GE23131-Programming Using C-2024

Quiz navigation



Show one page at a time

Finish review

Status	Finished
Started	Monday, 23 December 2024, 5:33 PM
Completed	Thursday, 12 December 2024, 12:00 AM
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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 {
4     int x,s;
5     scanf("%d",&x);
6     while(x-->0)
7     {
8         scanf("%d",&s);
9         for(int i=0;i<s;i++)
10         {
11             for(int j=0;j<s;j++)
12             {
13                 if((i+j)%2 == 0)
14                 {
15                     printf("W");
16                 }
17                 else
18                 {
19                     printf("B");
20                 }
21             }
22             printf("\n");
23         }
24     }
25     return 0;
26 }

```

	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
5.00Flag
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 %)

```

1 #include<stdio.h>
2 int main()
3 {
4     int a,b;
5     char ch;
6     scanf("%d",&a);
7     while(a--)
8     {
9         scanf("%d %c",&b,&ch);
10        for(int i=0;i<b;i++)
11        {
12            for(int j=0;j<b;j++)
13            {
14                if(ch == 'W')
15                {
16                    if((i+j)%2 == 0)
17                    {
18                        printf("W");
19                    }
20                    else
21                    {
22                        printf("B");
23                    }
24                }
25                else
26                {
27                    if((i+j)%2 == 0)
28                    {
29                        printf("B");
30                    }
31                    else
32                    {
33                        printf("W");
34                    }
35                }
36            }
37            printf("\n");
38        }
39    }
40    return 0;
41 }
42

```

	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 %)

```

1 #include<stdio.h>
2 int main()
3 {
4     int p,q,r,s,t=1,u,ans,v;
5     scanf("%d",&p);
6     while(t<=p)
7     {
8         scanf("%d",&q);
9         printf("Case # %d \n",t);
10        s=1;
11        u=1;
12        v=0;
13        while(s<=q)
14        {
15            r=1;
16            ans=(q*q);
17            ans=ans-v;
18            while(r<=2*q)
19            {
20                if(r<=q)
21                {
22                    if(r<s)
23                    {
24                        printf("***");
25                    }
26                    else if(r<=q)
27                    {
28                        printf("%d",u*10);
29                        u++;
30                    }
31                }
32                else
33                {
34                    if((r+s) == (2*q)+1)
35                    {
36                        printf("%d", (ans+
37                        ans++);
38                        v++;
39                    }
40                    else if(r+s<=(2*q)+1)
41                    {
42                        printf("%d", (ans+
43                        ans++);
44                        v++;
45                    }
46                }
47                r++;
48            }
49            s++;
50            printf("\n");
51        }
52    }

```

	Input	Expected	Got
✓	3	Case #1	Case #1
	3	10203010011012	102030100110
	4	**4050809	**4050809
	5	****607	****607
		Case #2	Case #2
		1020304017018019020	102030401701
		**50607014015016	**5060701401
		****809012013	****80901201
		*****10011	*****10011
		Case #3	Case #3
		102030405026027028029030	102030405026
		**6070809022023024025	**6070809022
		****10011012019020021	****10011012
		*****13014017018	*****130140
		*****15016	*****1501

Passed all tests! ✓

Finish review