

240701056

REC-CIS

GE23131-Programming Using C-2024

Quiz navigation



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Status	Finished
Started	Monday, 23 December 2024, 5:33 PM
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Duration	17 days

Question **1**
Correct
Marked out of
3.00
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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

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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, o;
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            o = 1;
```

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```
14     i2 = 0;
15     if(i1 % 2 == 0)
16     {
17         o = 0;
18     }
19     while(i2 < d)
20     {
21         c = 'B';
22         if(i2 % 2 == o)
23         {
24             c = 'W';
25         }
26         printf("%c", c);
27         i2++;
28     }
29     i1+=1;
30     printf("\n");
31 }
32 i = i + 1;
33 }
34 }
```

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

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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:

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WB

BW

BWB

WBW

BWB

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     int n, a;
5     char b;
6     scanf("%d", &n);
7     for(int i = 0; i < n;i++)
8     {
9         scanf("%d %c", &a, &b);
10        if(b == 'W')
11        {
12            for(int j = 1; j < a+1; j++)
13            {
14                for(int k = 0; k < a; k++)
15                {
16                    if(j % 2 != 0)
17                    {
18                        if(k % 2 ==0)
19                        {
20                            printf("W");
21                        }
22                        else
23                        {
24                            printf("B");
25                        }
26                    }
27                }
28            }
29        }
30    }
```

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```
25     }
26 }
27 else
28 {
29     if(k%2 == 0)
30     {
31         printf("B");
32     }
33     else
34     {
35         printf("W");
36     }
37 }
38 }
39 printf("\n");
40 }
41 }
42 else
43 {
44     for(int j = 1; j < a+1; j++)
45     {
46         for(int k = 0; k < a; k++)
47         {
48             if(j%2 != 0)
49             {
50                 if(k%2 == 0)
51                 {
52                     printf("B");
53                 }
54                 else
55                 {
56                     printf("W");
57                 }
58             }
59             else
60             {
61                 if(k%2==0)
62                 {
63                     printf("B");
64                 }
65                 else
66                 {
67                     printf("W");
68                 }
69             }
70         }
71     }
72 }
```

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```
62 {  
63     printf("W");  
64 }  
65 else  
66 {  
67     printf("B");  
68 }  
69 }  
70 }  
71 printf("\n");  
72 }  
73 }  
74 }  
75 return 0;  
76 }
```

	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

Decode the logic and print the Pattern that corresponds to given input.

If N= 3

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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

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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

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Case #3

102030405026027028029030

**6070809022023024025

****10011012019020021

*****13014017018

*****15016

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     int n,o, d, y = 1, m = 10;
5     scanf("%d", &n);
6     int a[n];
7     for(int i = 0; i < n; i++)
8     {
9         scanf("%d", &a[i]);
10    }
11    for(int k = 0; k < n; k++)
12    {
13        o = (a[k]*a[k]*10)+10;
14        int h = (a[k]*20)-20;
15        printf("Case #%d", k + 1);
16        printf("\n");
17        for(int i = 0; i < a[k]; i++)
18        {
19            for(int j = 0; j < i;j++)
20            {
21                printf("**");
22            }
23            for(int j = a[k]; j > i; j--)
24            {
25                printf("%d", a[k]);
26            }
27        }
28    }
29 }
```

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```
25     printf("%d", m);
26     m = m + 10;
27 }
28 for(int j = a[k]; j > i; j--)
29 {
30     if(j == y)
31     {
32         d = o;
33         printf("%d", d/10);
34         o = o + 10;
35         y++;
36     }
37     else
38     {
39         printf("%d", o);
40         o = o + 10;
41     }
42 }
43 o = o - h - 10;
44 h = h - 20;
45 printf("\n");
46
47 }
48 m = 10;
49 y = 1;
50 }
51 return 0;
52 }
```

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

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	Input	Expected	Got	
✓	3	Case #1	Case #1	✓
	3	10203010011012	10203010011012	
	4	**4050809	**4050809	
	5	****607	****607	
		Case #2	Case #2	
		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! ✓

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