

GE23131-Programming Using C-2024

Quiz navigation

1

2

3

Show one page at a time

Finish review

Status	Finished
Started	Monday, 23 December 2024, 5:33 PM
Completed	Friday, 13 December 2024, 9:02 AM
Duration	10 days 8 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 {
4     int t,size;
5     scanf("%d",&t);
6     while(t-->0)
7     {
8         scanf("%d",&size);
9         for(int i=0;i<size;i++)
10        {
11            for (int j=0;j<size;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 }
27 }
```

	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

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 %)

```
1 #include<stdio.h>
2 int main(){
3     int t;
4     scanf("%d",&t);
5     while(t-->0)
6     {
7         int n;
8         char stchar;
9         scanf("%d %c",&n,&stchar);
10        char firstchar=stchar;
11        char secondchar=(stchar=='B')?'W':'B';
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",firstchar);
19                }
20                else
21                {
22                    printf("%c",secondchar);
23                }
24            }
25            printf("\n");
26        }
27    }
28    return 0;
29 }
```

```
30  
31 }
```

	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 t,n,x,y,z=1,i,ans,c;
5     scanf("%d",&t);
6     while(z<=t)
7     {
8         scanf("%d",&n);
9         printf("Case #%d\n",z);
10        y=1;
11        i=1;
12        c=0;
```

```

13     while(y<=n)
14     {
15         x=1;
16         ans=(n*n);
17         ans=ans-c;
18         while(x<=2*n)
19         {
20             if(x<=n)
21             {
22                 if(x<y)
23                 {
24                     printf("***");
25                 }
26                 else if(x<=n)
27                 {
28                     printf("%d",i*10);
29                     i++;
30                 }
31             }
32             else
33             {
34                 if((x+y)==(2*n+1))
35                 {
36                     printf("%d", (ans+y));
37                     ans++;
38                     c++;
39                 }
40                 else if(x+y<=(2*n+1))
41                 {
42                     printf("%d", (ans+y)*10);
43                     ans++;
44                     c++;
45                 }
46             }
47             x++;
48         }
49         y++;
50         printf("\n");
51     }
52     z++;

```

	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! ✓

Finish review