

GE23131-Programming Using C-2024

Quiz navigation

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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
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 a,b,c,size;
5     scanf("%d",&a);
6     for(int i=0;i<a;i++)
7     {
8         scanf("%d",&size);
9         for(b=1;b<=size;b++)
10        {
11            for(c=1;c<=size;c++)
12            {
13                if((b+c)%2==0)
14                {
15                    printf("W");
16                }
17                else
18                {
19                    printf("B");
20                }
21            }
22            printf("\n");
23        }
24    }
25 }
```

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 {
4     int t,size;
5     char start,other;
6     scanf("%d",&t);
7     while(t-->0)
8     {
9         scanf("%d %c",&size,&start);
10        other=(start=='W')?'B':'W';
11        for(int i=0;i<size;i++)
12        {
13            for(int j=0;j<size;j++)
14            {
15                printf("%c", (i+j)%2==0?start:other);
16            }
17            printf("\n");
18        }
19    }
20 }
21
```

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

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>`

```
4 int T;
5 scanf("%d",&T);
6 for(int x=1;x<=T;x++)
7 {
8     printf("Case #%d\n",x);
9     int n;
10    scanf("%d",&n);
11    int f=1,b=n*(n+1);
12    for(int i=0;i<n;i++)
13    {
14        for(int k=0;k<2*i;k++)
15        {
16            printf("*");
17        }
18        printf("%d",f);
19        f++;
20        for(int j=2;j<=n-i;j++)
21        {
22            printf("0%d",f);
23            f++;
24        }
25        for(int l=b-(n-i)+1;l<=b;l++)
26        {
27            printf("0%d",l);
28        }
29        b-=n-i;
30        printf("\n");
31    }
32 }
33 }
```

	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!