
Week 5-01

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
.

Output:

WBW
BWB
WBW
WBWBW
BWBWB
WBWBW
BWBWB
WBWBW

Answer: (penalty regime: 0 %)

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

	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! ✓

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 v;
5     scanf("%d",&v);
6     while(v!=0)
7     {
8         char a;
9         int x;
10        scanf("%d %c",&x,&a);
11        for(int i=0;i<x;i++)
12        {
13            for(int j=0;j<x;j++)
14            {
15                printf("%c",a);
16                if(a=='W')
17                    a='B';
18                else
19                    a='W';
20            }
21            if((x%2)==0)
22            {
23                if(a=='W')
24                    a='B';
25                else
26                    a='W';
27            }
28            printf("\n");
29        }
30        v--;
31    }
32 }
```


	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

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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

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 v,c=0;
5     scanf("%d",&v);
6     while(v!=0)
7     {
8         c++;
9         int a;
10        scanf("%d",&a);
11        int s1=10,s2=(a*a*10)+10;
12        printf("Case #%d\n",c);
13        for(int i=0;i<a;i++)
14        {
15            for(int j=0;j<i;j++)
16            {
17                printf("***");
18            }
19            for(int j=0;j<a-i;j++)
20            {
21                printf("%d",s1);
22                s1+=10;
23            }
24            for(int j=0;j<a-i;j++)
25            {
26                if((j+1)==(a-i))
27                    printf("%d",((s2+(j*10))/10));
28                else
29                    printf("%d",s2+(j*10));
30            }
31            s2--(a-i)*10;
32            s2+=10;
33            printf("\n");
34        }
35        v--;
36    }
37 }
```

	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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